

<210> 49029
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-B11

<400> 49029

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gcggctccga agagttcaag ccct 84

<210> 49030
<211> 329
<212> DNA
<213> Zea mays

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<400> 49030

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cccataccgt gacctactac tccgctagcc ccgaccgtcg cggccacgac agcagcccgt 120

ccgacccccga ggattaagat tatatagaca ataacgagtt taaagttgat tggaagaggg 180

tgggcatcac aagactcttc ggagttgctt ttgttggtcc cagtgggcat tactgggatg 240

aatacctgga tcgcatcatc cggcggagggt ttcagcctaa cacgttcaaa ttcgtcgcct 300

caaaagttgc cgcggatgga ttcctcttc 329

<210> 49031
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-B3

<400> 49031

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gaaccagaac cgggttcaatg atctacaagc cggagataat ggccattgga ctggtttcca 120

tgtattggaa gcaagttaag attgatccac aagattt. 157

<210> 49032

JC675 U.S. PTO
09/394745
09/15/99

<211> 182
 <212> DNA
 <213> Zea mays

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 <400> 49032

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 gt 182

<210> 49033
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-025-Q1-K1-B8

 <400> 49033

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 tccgtctggg tgaactccag ggccaagatc agttcgccgc cttcgttcgc atcacctacg 120
 cggttcaatc caactggcag gaaagaacgt gatggccaaa acgagctcgt tcaagctgga 180
 gcaccccc 188

<210> 49034
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49034

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<210> 49035
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C10

<400> 49035

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ccccgaattc aacaataaac ctcacaaagc gcctccccgg ttgccacctc aaaaaaaagg 120
ccccgaatgc catcaaggag atcaggaagt tcg 153

<210> 49036

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C11

<400> 49036

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ccgagagtag gaggaggagg atgaccggcg gttggttcgt cgccgtattg gttgcggtgg 180
ttggatcctt ctgggttttg tgagcaacga cctgttgacg aaggatgggg gtgggt 236

<210> 49037

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C12

<400> 49037

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gttgtttccc ttggggactc ttggctcggc tatgccatcc gcaagggatt gctagagcct 180
atcaagaatg ctgaagaaca ggattggttt catagcctga gtgacagatg gaagggtccat 240
ttgtgcagga accagaacgg agaagcagat cctaattgga caatatgggg agttccatac 300
agatggggca ccatgggtcat tgcttacaag aaagacaagt tcaaaagaca taatttgaag 360
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<213>      Zea mays
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<400>      49039
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<210>	49040
<211>	412
<212>	DNA
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<400> 49040

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cgcccgggtc aattaaggat tggatgcgta tgtaggcctg ttgatcaagg actatcctat 240
ctagccacat gccctgagaa tgggacaggg taagcttgaa cccggctatt ccatacatga 300
aaagacaatc gcgcacttgg cgtggagaga tggcgagagt gacacgtacc cttctggcaa 360
cggatcgctt aaaaaggggtg gtgtactctc ggggtggcgcg gaccctgtca tg 412

<210> 49041
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C5

<400> 49041

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gtcatccagg gtttctcaat cggcagcgat ggcgaccagg gcggcggcga ggttcttgca 120
gcgcagggtt ctgtcttctg gcggtaaggt cctcagcgag gaggagaagg ccgccgagaa 180
cgtgtacatc aagaaagtgg aacaagagaa gctggagaag ctcgcacgca agggccccag 240
ctcaggagag caaccctcgt caaccacagg ctctgcagca agtgatgtga atgccgatgc 300
tgggccaacg gagtcagcat ctgcaagtgt gtcgacggac aagaacagga actatgctgt 360
tctggc 366

<210> 49042
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-C8

<400> 49042

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gccgtgcctg ggatcccaca ccggttctctg gacctcttcg ttgggccggc attcatgacg 180
gca 183

<210> 49043
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-025-Q1-K1-C9

 <400> 49043

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 <210> 49044
 <211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-025-Q1-K1-D1

 <400> 49044

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 tgttcgttcc ct 72

 <210> 49045
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-G4

 <400> 49045

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 tcatgtcgaa aaccatctca gagaaaggga tgcttgaagt gtacaactct ttgagcgagg 120
 aaggcaaaaa ggagttcaac aaggcttata gcgcacgtt ttacccatgc atggatatac 180
 tctacgaatg ctatgaagat gtggcctctg gaagtgaat ccggagcgtg gtgttggtctg 240
 ggcggaggtt ttatgagaaa gagggcctcc cagcttttcc gatgggcaac atcgacaaaa 300
 ctgcgatgtg gaaggttggt gaaaagggtg gctcaaccg tccggaaggat gatcttggtc 360
 cgctccatgc cttcactgct ggagtgtaca ttgccctgat gatggctcag attgagatcc 420
 tgaggaagaa ggggcactcc tactctgaga tcatcaacga gagcgtga 468

agaagagcct gaacgccttc ttcgagctgg ccacggcctg ctgcagcccg tcgccgtccc 60
 tgagaccag cagcaggcag gtactcaaga ggctcgagga gatcgcgaga taaatggacg 120
 cgagtgtga gcaggcctgg cgacttgctg cttaatctgc atcgctctct attgcagcat 180
 accgttgagc tgagaagcgt ctaccttccc taagctaaac gaagaacgta tttttgtggt 240
 gggcgagtag gaaatggatg catgtttttc acgtccagta acctgtactg tacagtttca 300
 ccgagatgca nggttgttca tcagaaaaca tacagggtgt gctttcggtg caaaaaaaaa 360
 aaagnattta atg 373

<210> 49049
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-G9

<400> 49049

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 cttcatgcaa gtgtcacgtg tcgcaaggca gatggtcgaa agatttggat tcagtaagaa 120
 gatcggccaa gttgcgatcg ggggaccggg tggaaaccct ttcttggggc aacagatgtc 180
 aagccagaag gactactcta tggcaacagc ggatgttgtg gacgccgagg tgagggaact 240
 cgtggagaag gcctactcta gagcaaggca gataatcacc acgcacatcg acatgcttca 300
 caagctctgc cagctcctga tcgagaagga gaccgtggac ggggaggaat tcatg 355

<210> 49050
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H1

<400> 49050

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 gctcagagaa tctgggctct ccgatgtcat cttccatcag ctggacatca ccgacgctgc 120
 gagcgtcagt cggctggctg agttcctcaa ggctcgtttt ggaaagctag atatcctggt 180
 aaataatgcc gcagttggtg ctgttgagta cgtccaagat cctgctgaca gttcaacgag 240

cgaggaagag ctgagtggca tggatatggt ccaaaggctt cagtgcacgc ttaagagagt 300
 ccgggagacc tacgacgctg cgacagaaag catcaagaca aactactatg gcataaagca 360
 tgtgatcg 368

<210> 49051
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H10

<400> 49051

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 ctgacgcat ggcggctccc gtctcgtcc tcatgtcct cctcgtcgcc acagagctgg 120
 ggacgaccaa ggtggccgaa gcgaggcact gcctgtcgca gagccaccgg ttcaagggcc 180
 tgtgcatgag cagcaacaac tgcgccaacg tgtgccagac cgagaacttt cccggcgggc 240
 agtgtaaagc ggaaggcgcc acgcgcaagt gcttttgcaa gaagatatgc ctgtag 296

<210> 49052
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 49052

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 ctcggaaccac ttctggaacg acatcgcggc ggcggaggcg gccatctaca tgttgatcga 120
 cggcggctgg acagggctcg gccccggcca tcccgcgcg gatccgcctt cgtcgccggc 180
 gtgggagtac tgctctgatt actcgtctg gaggatcgac gacgacgagt actacgagaa 240
 gatgctcgac tctcctcct gattcgatta tccagccatc acacgcatat gcatactat 300
 cattagctaa ntctttcttt ttttggtga tagctagcta cacagcttga gaatcaagct 360
 tcggtcggct tt 372

<210> 49053

<211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-H12

 <400> 49053

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 gctctaggac ctatatgttg accttttggc attggtaaatt tgaatttacg aaaaaaaaaa 120
 ctgctgataa acaagatata gaaataagaa tttagttgaa aatatacctt aataaacgga 180
 ttgggaggtta tgatatgaaa actaaatggg ggggaggttt agaggaccaa aacttacga 239

<210> 49054
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-H2

 <400> 49054

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 ttttagccct tataaaaaaga aaacggattc ttgaacctct ttcacgctca tgtcacgtcg 180
 aggtactgca gaaaaaagaa ccgcaaaatc cgatccaatt tttcgtaatc gattagttaa 240
 catggtgggt aaccgtatta tgaaagacgg aaaaaaatca ttggcttatt aaattctcta 300
 tcgagccgtg aaaaagattc aacanaagac agaaacaaat ccactattgg ttttacgtca 360
 agcaatacgt agagtaactc ccaatataag agtaaaaaaca agacgtaata aaaaaggatc 420
 gacgcggaaa gttccgattg aaataagatc taaa 454

<210> 49055
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-H3

 <400> 49055

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 cctgtggacc atttctgtgc aatcattaac cctccacagt ctggcattct cgcagtgggt 180
 agaggaaaca aggttgttga acctgttgtg gacagcgatg gaaccgagaa ggctgctgca 240
 gttacaaaga tgagcctgac actatctgct gaccatcgtg tatttgatgg gcaagtatga 300
 agcaagtttt tcacggagct ggcgctgaat ttcagcgaca tcatgaggct gctattgtaa 360
 atgaaaggaa gcaattaccg tgttttgacg tattctttgg gagcgaaaac cgctcatgaa 420
 aagagaacat ttggatgcaa cccgtggtct gctgcttgat 460

<210> 49056
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-H4
 <400> 49056

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 ggacgaccaa ggtggcggag gcgaggcact gcctgtcgca gagccaccgg ttcaagggcc 180
 tgtgcatgag cagcaacaac tgcgccaaag tgtgccagac cgagaacttc cccggcggcg 240
 agtgaaggc ggagggcgcc acgcgcaagt gcttctgcaa gaagatatgc tagtagtagc 300
 ctcggtttg ctggcacaag caggtcgtcg gcacgcaacg caattcaagc atcatatcgg 360
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 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-H5
 <400> 49057

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 tactgttggg accatgcttc gtcgccgaag gtcctgcagg aagaaacagc ttcggctgaa 240
 gctgtctgca cgtgatgacc gaagggttgc gttcatgaag cttcggaatt acaaaccgac 300
 ttaaaagtag aatgaccttt tagtccataa gtgtttgagt cgttggttga aacttttatg 360
 aggggcatgt ttgtaattcc tcacaggctg tgtctngtgc ctataaatag tgaacaatat 420
 tcctttactg ttcacacatt cttgtaattg caatcgcac aat 463

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 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-H6

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 atcatcgacc tcgccggcga gcccgcgagg cgccgagggt acgtcttctt ctccgaggtc 180
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 cgcttcttca tccgggtcgg ctggatgagg aagctggaca cggatgtgga gcagtacaac 360
 tacagggcct ttcccagcga gttcttgtgg gagttgacgg acgacacgcc cganggacac 420
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<210> 49059
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-H7

<400> 49059
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cactgcaccg acaatgcaca ttcccaacac aagcaaccag caaccatcgt caagcttatt 180
 tgcttcatga aaccctgggt tgacacagtc caagaattcc atgggtctttt caagcgcatt 240
 atccagcccc a 251

<210> 49060
 <211> 236
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-H8
 <400> 49060

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 aaaagtctgt ccgagctatg gcgcttcac caaaggagaa agcatttgca tcagcatcag 120
 cagacaacgt aaagaagttt aaccttccca aaggcgaatt tctgcacaac atgccttctc 180
 agcagaaaac aataatgaat tcaatggctg caaatgagga acgtgtcttg gcaact 236

<210> 49061
 <211> 278
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-G3
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 cgtcaagttc ggcgaggccg tgtggttcaa ggccggctcc cagatcttca gcgagggcgg 180
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 ctgccaagtc gtgctcatgg gcgccgtcga gggctacc 278

<210> 49062
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-024-Q1-K1-E7
 <400> 49062

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aagtgatgtg ccctccatgg ttgatcgtag ctgaactcag gcttccagga catgtgttgc 180
cagtaatacc ttttcagcgt tactcaccct tcactctgtat ttccagtaat ccagcttgtg 240
gcgagtgcata taatgctaata aagtgcata aataaccatt tgctgatatg ctgtatatgt 300
tgggtcttgtg gatggagcgc tctgaagatt atatccattg ccagtaataa atcgtggcctt 360
tatctgacc 369

<210> 49063
<211> 469
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-024-Q1-K1-E8
<400> 49063

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cactctgata ccagcacact aaaaggtcta gaggatcagg ctggcctgct gtttttcatc 120
gctgtgtttt ggggcttctt tccagtgttt actgcaatct ttacattccc tcaagagagg 180
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tacttcatgg caggcctcaa agcaactgcc acacatttct ttctcagcat gttgaccgtc 360
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atcaagaaag cgacaactct agcttttagtt acagtcatga cattcatgc 469

<210> 49064
<211> 235
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-024-Q1-K1-E9
<400> 49064

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<223> Clone ID: LIB3078-024-Q1-K1-F2

<400> 49067

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 ggttcattgta ctatttgtgt gagagttctt gatctcttgt cgccgcggaa ttgtgttact 120
 atcttattac tgtaccattg accatttttc ttgtgagatt catttgagta gtcactttaa 180
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<210> 49068

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F3

<400> 49068

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 gtcctggctg ggctaggctc caccatggct gacacaagca tggtgctcga gctacttcat 120
 ctggtctcag aataaatctg gttttgtcgt gccggaactg tgagctcaca gagatgaaca 180
 aataccataa cgatgttgct agctgatgtg gtg 213

<210> 49069

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-F5

<400> 49069

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 gcgacatgac cgtcatgttc ggcaagtggg agttcgaccc catggcgctg ccggagccgc 180
 cgtgccccgt gcacctctgg cagggcgacg aggacggcct cgtccctgtc gtgctgcaga 240
 ggtacctcgc cggcaagatc ggatggatca actaccatga actccctggc accggccact 300
 tcctgtcgtc ggtgcctggg ctcgagaca acgtccttag gacccttttc agtgacaagc 360
 agtaaacaaa caatcctncc tcacgacgta tcgaagcttt cgagcatggt ggtggtggtt 420

gcgcattagt tcattttaat at

442

<210> 49070
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F6

<400> 49070

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tggagtctat tctccagctt cttgcgagc gagggctctg cagcgtgctg gtggacttca 120
gagaggccgg cgaaagcttc gcgtcgcttc tgaacgactt ccaggaggac aagctggtgc 180
agaaggtcgt cgttgaggtc ctgccctttt ggctcgcgag cgacgggctc agcaacctgg 240
catttggtgg cagccaatcg ttcccgttga agaacttggg gctcagggat gtgaatggga 300
gtgtgctgct ggaaggctat gtgtaatagc ctctcttctg tcggagattg gcattgtttg 360
ttttccctcg tgtaaacaga tagccctgta atatacttgc aagagccgcc acgagccatg 420
tggggggttg cttttttata tatatagttg aaaatcaatg ccatgcgt 468

<210> 49071
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F7

<400> 49071

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atgtcttgca actgcggatc aagctgcggc tgcggctcaa gctgcaagtg cggcaagaag 120
taccctgacc tggaggagac gagcaccgcc gcgcaggcca ccgtcgctct cggcgtggcc 180
ccggagaaga aggccgcgcc cgagttcgtc gaggccgcgg cggagtccgg cgaggccccgc 240
cacggctgca gctgcgggtg caactgcaag tgcgaccctt gcaactgctg atcacatcga 300
tcgacgacca tggatatgat tattatctat ctagcttgtg gtggtggttg aacaataata 360
agcgaagccg agctggctgc catacatagg tattgtgtgg tgtgtgtgag agagagagaa 420
acagagttct tcagtttgct atctctctct gcatgtttg 459

<210> 49072
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-F8

<400> 49072

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aagctctaatt tcaactagga gtagtgcaac atggcggtta tctgcatcag ccacggctgg 180
cttgatgaac ccatgctgga gtggctaatt gagtgagaca gctagccgat gccagcagc 240
atcagcttgt agacgctatg agtcagcatg cattctgaca gcctggcatg gactgacgac 300
gag 303

<210> 49073
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-024-Q1-K1-F9

<400> 49073

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ctgcaagaaa attactcctt acgtgctgag ttttctaacc caagtgctaa tggctaacaa 120
attgctagct tatcagctat tcagttacac tgccatacta gttagtagat aaccagatgg 180
cccagtaaatt gttgtattag ttcatgcacg taaatgaggt gtagctgtga aagtagatcg 240
atgaagggttc ctgatgtgaa aaagtcaaaa gacaatgtan gagcttctgg gtcacagttt 300
caaaagattt tgctcccttg cagtgattgt aagatctttt tggaaagtat gccnntttgt 360
tgntctggcc 370

<210> 49074
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-G10

<400> 49074

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 gggcgggctg ctccgcaagg cgcaggtgga ggagttctac gtcattcacgt ggggtgtcccc 120
 caaggagcag gtgttcgaga tgcccaccgg cggcgccgcc atcatgcggg agggggcccaa 180
 cctcctgaag ctggcgcgca aggagcagtg cctcgcgctc ggcaccaggc tgcgctccaa 240
 gtacaagatc acctaccagt tctaccgctt cttccccaac ggcgaggtgc agtaccttca 300
 cccaaggac ggcgtctacc cggagaaggt caaccccgcc agggagggcg tcngccaaga 360
 cttccgcagc atcggcaaga acgtcaacc 390

<210> 49075
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-G11

<400> 49075

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 gaggagacgt gcgcggacga ccagaagggc gacgccgagt gcgcggcgcc gtgggacgag 120
 gtggaggagc tcagcgccac ggccagccac gcccgcgaca gcctcaagga gaccaacgcc 180
 aacgacccgc tcgagaagta ctgtaaggag aacccggact ccgaggagtg ccgcatctac 240
 gacaactagc tatagtcgta gctatatagg gcgtggaatg atactctcga tcggcgcgctc 300
 atacgtggaa tgaacttgta tgaagctata cctcaat 337

<210> 49076
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-G12

<400> 49076

gtcttacgat gttgtgggga ctcaaattgt ccagacaggt gttcctgctt ccaaagcggg 60
 tctaattcga ggaatggagg gttcaattgc aagccttgct gagctagtca tgcttgctat 120

gatgaaccct ttctcca

317

<210> 49079

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D2

<400> 49079

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gtgatgatgg tgtatgcgaa caatctgcag cggagatgga agatagcggc acaaaagctt 120

tgccgtacca atcggaaaag gaattgactg aagaaacat tgatccgatc accgcagcac 180

aggctacacc tgaatcaatt gctgagacaa atgatgacag cacagtcagt gaggctatac 240

agacaccgga aacatttctt gaggaagaac agcagcaaca aatgaaagaa gtgaacgatg 300

aatcaacgaa tggactggat catctcatga accccagtaa cccgaatgat ttgagaaacc 360

cacatatgga t 371

<210> 49080

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D3

<400> 49080

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tagcactcga ccagctgggt cctggctatg gcagcatccc gttgagcccg tactacttct 120

ggccgcggaa ggacgcgtgg gaggagctta gagccaagtt ggaagagaaa gagtggatct 180

cgcagaagca gatgatcatc cttctcaacc aggccaccga tatcatcaac ctctggcagc 240

agggtgggtg gaacctgtcg acatgagtcc cttcccgcgc tgttctttca accgtgcaaa 300

gcttgcgttt tggtgggttc actacaggct ctctctgttg ttaatgttaa aagtatggta 360

catggccttg tagatcgggt caaactgttc tcaggatgg ccttttccat ggaaatcatc 420

ttgggattta tcttagttat tatgtgtatc aatccgtcac cccccccccc c 471

<210> 49081
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-024-Q1-K1-D4

 <400> 49081

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 aaggcgagtg actacaaaac agctctgttc ggcatatgga gagaacaaaa aaagaagaag 120
 attacaggtg atcctggaga tatgaacaaa cgcttgagac actcagaatt caagcccgtg 180
 ctgtctggca gaatcagcga gagcctttat gcggccatgg tagaggaaac cacctcggtc 240
 gaagacaacc ttggtgatcc ctttctccaa gcaagacttg gcaatcacct caccgatctt 300
 ttgtgctatt tcg 313

<210> 49082
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-D5

 <400> 49082

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 gttcactatc ttgctcctcg tcgtctacct cgccggttct cgcgccaac tggccatcgt 120
 gctcgacgtg ttttctccg tgcagattcg catgtacct tcactccatc cgctagtcgc 180
 gtggtagaga agatcacgtt atcgggtgat caatcgctt gtggagtaat ttcttgagg 240
 ctggtcgtca ccctgaagat ttgtggcaaa ttattttctt agtcattggc tcttactgc 300
 aacaaaggta ctagagttgt gctgttgtgg atggtgttaa gtgccagtag gcacgacctt 360
 cttataagtc taagtaactc ttctatactt cttattgaag atggtcactt aagctagcgt 420
 atatttcaaa cttantaata atttataaca tttcaaagtt ta 462

<210> 49083
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D6

<400> 49083

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gcatggggcca ttattttgga ccctgtggaa caaggcgagt gacttcaaaa caaatttgtt 120
ctgcatatgg acataacaaa aaaagaacaa gattacatgt gatcctggat atatgaacaa 180
acgccttgac gactcacaat tcaagcccct gctgtctggc agaatcagcg agagccttta 240
tgcggccatg ttaaaagaaa ccaccttggt c 271

<210> 49084

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D7

<400> 49084

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tgcaagggat tcaactgtcg atttacttgg atggtacatc catttttgtg cacgagttgt 120
gattcttgta actatccgta aagtcttaga tcattagatt ttagtttact tgtaaaattg 180
ctaaatcgtc atttctgtc ttgcttatca gtgagttaca cacgtttagt gcttttatca 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaataaaaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
ggggggccct 370

<210> 49085

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D8

<400> 49085

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gcgaaatcgg taaacgccac tgtcacctag gcatcaaaat tctcatgggc atgtgcctta 120
acaattctat cgacctcgcc aacgccacca ttccattgac tcacggcttg tactacaaac 180

cccttgagtc ttgtaccaaa gccctaactt ctttggttaa catcattaag ccattttttg 240
 tcctttttta tttaaacccc tttttcataa taaaacctt ctgaaacctt ttttctaaat 300
 attatttttg aatatcctta tccttatttt ttggcttttt 340

<210> 49086
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-D9

<400> 49086

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 ataacctttc gtttcattta tttgttagtg cttgtgttcg taagtttttc tagtcttgta 120
 tcctaaaacc gtactactct gtttatgtcc tcttgttctt gctttgtttt agcatatctg 180
 tgagatgcat tgccactttt tgtactgtc accttctgtt ttgacctggg catggcagtt 240
 cacaaaaaga tggaatatat ctgtaccaa gtttcaattt attatggaca gttagttc 298

<210> 49087
 <211> 347
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-E1

<400> 49087

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 ctgttcgggc tgccgtcgag gtacagggac tcggtgcggg ccatccgccc ggggctgccc 180
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 ggcgggacca acatcgacct gacggcgtgn gaggacaaga agtgccccgg cgagtcgcgc 300
 ttnccagcac aggtgcgagt ggcaacgcgg aagatctacg atccact 347

<210> 49088
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-024-Q1-K1-E10

<400> 49088

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ttggcaccac tttgggtact gactcaggca ttctacgagc acagatctca aaagacgttg 120
aaactcttgt tgatgtaatt gcttcatgga catcttcaaa ttctgggtcca agactacttc 180
gcccatgatc acccagcagt ctgcgtacag aaatgttagt aacagtgaag agcaacagga 240
tttaatgatg cattgtgagt aacanaaaga tgatacgaga cgttggcaat taaggagtta 300
tgttaccttg gccggtggag gaaggatgca tggcactggc aataggagct tttgtggaca 360
aactatctta acccatt 377

<210> 49089
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E11

<400> 49089

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gtttgggcta tgggaatatt gtcatacagg atctatgaag ctagcaagaa ctgcaggaag 120
ataagcaaga tctggtgtgc ttgggtagga caaggctccc atggttttga gagttgtaac 180
acttatgagc aatctggatt tgccatagtc aacttctctt atacctatga tttaggcagg 240
aagtggctct ctgaggaaca agacctgtct gtctctgctg gatctttctt tgtaattgat 300
gatgctggac accgtgggaa gcgaatgaga aaatcattct ct 342

<210> 49090
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-E12

<400> 49090

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<223> Clone ID: LIB3078-024-Q1-K1-B6

<400> 49099

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ctccgtcttt ggtgagaaca tgattgacga tggttatcaa gatgttgta acattgatat 120
atcttctgtg gtaattgagc aaatgaagaa gaaataccac gataagcctc aacttaaata 180
catgaagatg gatgtaaaga acatgtcaga ttttgagtct gggtcttttg atgctgttat 240
tgacaaagga aactggatt ctcttatgtg tggtaaaat tccaagaga atgcaacgaa 300
aatgctagaa gaggtcaaca gaatcctcaa ggaaaatggt gtctacatgc tgatcactta 360
tggggatcca agttaccgct tcgctctctt gaaggacatg gaaaaatgga cagtaaagct 420
ccatgtcata gaaagatggg agaaaagttc gaatc 455

<210> 49100

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-B7

<400> 49100

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ccatcgccag cagcgccctc ggagatttcg gcgactccaa gacggtatcg ctttgcgta 120
agaggctagt ctacaccaac gatcaggggg agattgtcaa aggagtctgc tcaaacttcc 180
tgtgtgactt gaaacctggc gccgatgtga agatcacagg gccagtgggc aaggagatgc 240
tcatgccccaa agaccccaat gcaacagtca tcatgctcgc aacggggacc ggtattgctc 300
cgttccgctc cttcttggtg aagatgttcc tggaggagca cgaggactac aagttcagcg 360
gccttgcggtg gctgttcttg ggagtccga cgagcgac 398

<210> 49101

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-B9

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gaatgcgtaa aagctgctgc agtttctct gtcgtcgggtg ttctggctag ttgcccata 120
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agttgtgctt tgtttggagt cacattccgg tacgctgtta gaagagatct ggataatatc 240
caactaaaaa ctggggctcc tgcagcattt gcttttgta gaggccttgc tctgctggaa 300
tctggtagaa ccttcgagct gagtactgat accttaatat cagntactct tgatgctgca 360
gtcagtgt 368

<210> 49102
<211> 371
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-024-Q1-K1-C1

<400> 49102
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ccgtggccaa aggacctgca gggccgacga cgaagaagca gtgctggtgc ggcgagtga 180
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agaactgcgt ccccggtgcc acggacaagg gcaccaccaa gtacagggtgc cgcgacttcc 300
tccccgaaaa ctgcggctgc aagatccact agactcatcc acagcggcac agccgatgga 360
tccttccatg c 371

<210> 49103
<211> 389
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-024-Q1-K1-C10

<400> 49103
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tctgcttctg cttctgccgc cattgaagac agcgtgaagc atttcctcca ggcgccactt 180
gaaaacagtg ggatcatccc aaacgcagca gtttttcaga ccaagccagc ttctctgcac 240
cgtgttgcta gcctggagaa cctgcagaag aggatcgtcg gggatgcaat gtattccgag 300
accgcgtcaa cgacattctc agatcctgaa gctcttgccg ataggtaaaa gttgctcctg 360
tcctgtgatg aacagccgtg tgatgctct 389

<210> 49104
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-024-Q1-K1-C11

<400> 49104

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ccttccatcc atccatggca tgcgtcagca ccttccagag ctgccccatt gccagaagag 120
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cagccttcca gttccagtgc agggcgctga ctttcgcggc ggacaccagc ctccggctcg 240
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gtcaacgcgg cgtggcgctc ctgagcgag 389

<210> 49105
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-C12

<400> 49105

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atctgctttg cctcatgtcc acaggtattt atccaccatg gataaccagc ctaacttcaa 180
gaaactcatt ggtgaagtca agcagtcaga gtaaagacct gatatacccc aaggagctcc 240

655760 " 3446660

<210> 49106
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-C4

<400> 49106

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 catcaatggc cactccaacc acctattcag tccgcatatc ctcggagacc cacaagattg 180
 aagcctgggt ggtgtctgac gaagcttttg ccaggcaact gcaggaggag gagaacacgc 240
 gtgacgctgc tgccgacacc agagaagtcg ccggcaatgt acccttggag tcatcgtcac 300
 cggtgttga gtacaagcct gcacagaatg cagctcaagt tgcaagggaa gacaatgtgg 360
 acccagataa tatgtcatat gagcaactac aagcattatg ggaagcagta ngaattcagt 420
 ccaaaagggt atctgatgag ctgatatctt atttg 455

<210> 49107
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-024-Q1-K1-C6

<400> 49107

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 gccgggcatc cgcgcggcga gcgccacggc cactgttcgc cgtgcgcgcc tcggtgctg 180
 acgccgncaa cagggatgcc gtgctcaagg ccttccgcga gaacagggtc ctcaagataa 240
 tttccggtct tcagaacttt gacaggagca gtgttgcatc tgttgtcaca gctgcagata 300
 agggaggtgc aacacatggt gacatagcat gtgacaagga cttagtaaag cttgccatgg 360
 atcttaccaa ccttccgatc tgtgtctcat ctgtagatcc ttcagcgttc cattctgcag 420

tacaagcagg agctaaaatg gttgagattg gaaactatga

460

<210> 49108
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-C9

<400> 49108

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cacagacaga gaagccaatg gcgctgtgcc tctccctcgc gcgccccgcg cccctcgccg 120
tttccgcccgc cgcaggagcc aggaagctac ccgcagccag cctcgcattc ccggcgaaat 180
ccttcttcgcg cgcgccgctg gccgccaccg cggcctccgt cgcgtcgccg ctcccgcgca 240
agccggccac cttcaccacc tcgctcgagg tcgtcgcggc ggggaagaaa ggctacaaga 300
tg 302

<210> 49109
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-B11

<400> 49109

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ccgtcatctc aggacgacac tgtcactgaa aagccctcag ctacaactga cactgcacaa 180
actgcatgag acatcagtta gctgggttaa gttagttagc aacagtttta aacggagtgt 240
ggatcgaata ctattggtca tagttcggcg tggcttctgt ttgggcactt tttcggcggg 300
ttggggtg 308

<210> 49110
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H5

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gtggaccctg tttggcatgg tagccgcagc gagctgccgt ttctcaattc actgaagatg 180
aagatgtcca ttcttcttgg agttgcacaa atgaaccttg ggattgtgat cagctacttc 240
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ttcttgaaca gcttatttgg ttacctgtcc ttgcttatta ttattaagtg gtgcacgggg 360
tcaaaagcag atctatacca tgttatgac tacatgttcc ttagcccaac agatgagatt 420
ggtgaaaacc 430

<210> 49111
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H6

<400> 49111
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gccatcaagg gtcttgccgg tagctgcac ttcggaagga agctcgccga cgccaggccg 120
tgcgaccgc tgcagcgca gggcccgccg agccgccgtg gtggccaagt acagtgacaa 180
gagcgactac tatgacctct ggcacatcag caacgccacc ggacagtggg acctgtacgg 240
ctctgacgcg ccctcgctct accacccgct acagagcaag ccattcgaga cgttcgctga 300
tccgttcacc aagagaggtc tgctgctcaa gttcctgctg ctgggcggca ggctcacttc 360
tggcctacgt gagcacgtat ggcataccgg accttctgtc gatcatgaag ggacctaagg 420

<210> 49112
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H7

<400> 49112
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tcaatacact tgagtcttgg ataaaaaat caaatagttc cagagactga gtgaagttga 120
 gtagcaatag atggatttct gcaataagac atgaggaatg gtagcaaata agggctccgc 180
 tgagtccatc catcatccgt gtatgattgg ctttcttctc gtgttttgtt catgatttgt 240
 gtcagaaacc taggtggcat ctagtctggg ttatgtattg ccagtgctgt tgtgtagaaa 300
 aatctccgtc gatattctaa gctttttggg tagaaagggt cgctcttcat tgtccttgac 360
 ggaactcggg gtagatgaac at 382

<210> 49113
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H9

<400> 49113

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 gggctgtcaa ggtctccagc cgagctcttc cctgccgcag ccaccacatg ggcgctcatc 120
 tccctactcc atggcggcac ctctactctc gtggtagcga gctcgccctt gtattcctgc 180
 tcgcccagcc ctactctgct gatagccggg ggccgacgac gtcgatttca gtcacctgga 240
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 cccagcgctc cctgctccag cacgtgtcca tggccgtcaa gtccctccca tggtcgagca 360
 cgtccctgcg ttccgatgtt ggacaccgga ctgcgctgct cgtcctcaac ctgcgtgatg 420
 ctattttact ggtgcatgtc ctgcacctac gccattgaac aac 463

<210> 49114
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A1

<400> 49114

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 tgaagacggc gacgatgac cagcaggcga ggacgatggc ggacggcaag aagctgggcg 120
 acgcgcggga caagctggcg gaggcccaga acgcgctgga ggacgtggtg gcgcagtccg 180

acccgctgct ggacgccctc aggacggagc tgcaggagct actgaagctg atgaagtcgc 240
aggacgtgta cgagaagcag ggccggccct acgccatgtc gtcggagacg tcgcacgaca 300
ggcagcgggtt cgcggcgagg ggcgacatcg agagcaatcg cctcttctcg acgccgcgca 360
tggacaagta cctggagc 378

<210> 49115
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A10

<400> 49115

agcgactcag cgagcgagag cagcacacac tgcacgcagc tagctaggag cagcagcagc 60
ggcggcgatg gcggcctcca tgatctcttc gtcagctctg gcgggtggcg ctcagggcct 120
gccgcccctc ggccgcccgc cctctctctt cgccgtcgtc tgctccaaga agaagatcaa 180
gaccgacaag ccctacggga ttgggggtgg cctgaccgtc gacgtcgacg ccaacgggag 240
aaagggcaag ggcaagggcg tgtaccagtt cggcgacaag tacagcgca acgttgactg 300
atacagccca atctacaacg aggatgactg 330

<210> 49116
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A11

<400> 49116

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gacagtcacc acgtctgctc tgctcagaga atcacgtgcc agtcgtgacc atgctcacia 120
ttctttaccc accgtactca gaacattcta gggagacgct ggcctatatg aaacttgatc 180
cataatcagt ctcagaacgc gaagaagaag tggaagtccc tggggcgacg acaacaccac 240
atcttgagtc tcacgcattg tctcattct actttagcat atgcgggcct gagactaact 300
catacataag caaaggtgcg gcagcg 326

<210> 49117

<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A12

<400> 49117

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cgccacacat ggcaccccag ctctccgccg ccgtgcccgc gttccacggc ctccgggggt 120
acgccgcgcc cagggtccgcg gtggcagcgc tgccgtccgt gaggggtgggc aggaagaggt 180
cgtcgctgca gggcatccgc tgcgactaca tcgggtccgc caccaacctg atcatggtga 240
cgacgacgac gctgatgctg ttcgcggggc ggttcggggt ggcgccgtcg gcgaaccgca 300
aggcgacggc cgggct 316

<210> 49118
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A2

<400> 49118

aggcgacgat tatggggcca tcagatagcc catacgtctg tggcgtatct ttggtcactg 60
ttcagtttcc accggactac gcattcaaac caccgaaagt tgcattcaag acgaagggtt 120
accacccgaa tatcaacagc aacgggagca tctggcttga tatcttgaaa gagcaatgga 180
gccctgcact gaccggttct 200

<210> 49119
<211> 57
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A3

<400> 49119

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<210> 49120
<211> 76
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A5

<400> 49120

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gaacttaciaa ttattc 76

<210> 49121

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A6

<400> 49121

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cgttccgaaa accaagaaga cctactgtaa gaacaaggaa tgcaagaagc acaccctgca 120

caaggttacc cagtacaaga aaggtaagga tagcctttca gctcaaggga agcgacgtta 180

tgaccgcaaa cagtctggat atggtggtca gacaaagcct gttttccaca agaaggcgaa 240

aacaacaaaag aagattgtgc tgaagctgca gtgccagagc ttgaagcact actctcaaca 300

cccgatcaag aagtgcaagc actttgagat cggtggtgac aag 343

<210> 49122

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-024-Q1-K1-A7

<400> 49122

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tcgaccgct gtaccctggc ggcagcttcg accccctcgg cctggccgac gaccccgagg 120

ccttcgccga gctcaagggtg aaggagctca agaacggccg cctcgccatg ttttccatgt 180

tcggcttctt cgtccaggcc atcgtcaccg gcaagggccc gctcgagAAC ctcgctgacc 240

acatcgctga ccagtcAAC aacaacgcat gggcctacgc caccaacttc gtccccggca 300

actaagctca acggctatgc tatgcaactt cattgtcttt cggatcggan aggggtgtacg 360

tacgtggatt gattgatgct gcnagatgca tgttgtgtctt ttggttcacg 410

<210> 49123
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A8

<400> 49123

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ggtgcagctg gccgcgcccc agggccgcgg cgccgctctg ctcggcctgg cggccgtctt 120
cgccgtcacg gccaccaccg ggtcggccaa ggccacgac ttcgatgagt acctcgagaa 180
gagcaaggcc aacaaggagc tgaacgacaa gaagaggctg gccaccagtg gagccaactt 240
tgcgcgcgcc tacaccgtgg agttcggcag ctgccagttc ccctacaact tactgggtg 300
ccaggacctt gccaaagcata agaaagtccc cttcatcagc gacgacctcg aaattgagtg 360
cgaggggaat gagaagttca agtgcggtc caacgttttc tggaagtggg gaagcatcta 420
gcagcagcgt ctgatgggaa tggaggagat catca 455

<210> 49124
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-H3

<400> 49124

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cgaaacggtc gacatggctc gcacgcaatc tgccgtagcg gtcgccgtgg tgggcgcggt 120
gctgctgctg gcagcggcng cgacgacctc ggaggccgnc atcacctgcg ggcaggtgag 180
ctccggcatc gcgccctggc tcttctacgc ccgcggcacg gggtcgnc ccttcgcgtn 240
ctgctgtagc ggcgtcagga acctcaagag cgccgncagc accgncgncg acaggcgcgc 300
cgntgcaac tgcctcaaga acgccgnnca ggcgtcagc ggntcaacg ccggaacgcc 360
gncagcatcc tctcaagtgc ggcgtcagca tcnctacac catcagcacc ttcaccgact 420

gcttccaggt gaactaaaac ctagaccacg cgcgac

456

<210> 49125
<211> 212
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-A9

<400> 49125

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actgttcgct acaatcgtag tgtaatgtgc tggattcttc gaatgccata tcccatagtc 120
tgccatggct tggaataaca tagtgtctga ctgatatgtc acgaggcact ttatgtagta 180
cttacagaac tactacaatg ttgtactata ca 212

<210> 49126
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-024-Q1-K1-B10

<400> 49126

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aagtaccaat tggttcggca aaagtctgag ctgtcttttag tagtggcagt ggaaaggtgg 120
ccggatgcat gattacaaca ggaaaagttg ttcaagattg taatgtgcgg gttattcgta 180
aagggaaaaga agtatacgtg ggttcgcttg attccttgag aagggtgaaa gaaactgtga 240
aggaggttgg tgctgggcta gagtgtggta ttggggtaga tgacttctat gaatgtgagg 300
aaagtgcacat catagatgca ttcaataccg tg 332

<210> 49127
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G10

<400> 49127

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tctgccatgg acaggaacac aggacgatta ttactactag gcactacgca ctgactgcct 300
 acatgcagga gcagctcaac gacgacgact gcgaatctag gacttccgtc ccctccggaa 360
 agctctgcgc atgtaaagga aaaggaaatt ggaacatgt agcgactta tagcatgcat 420
 gacagcaatc g 431

<210> 49130
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G2

<400> 49130

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 tcccggatcc cgctagtctg ccaccgccgc ccgccgccc gccgttcgcc tcatcatggc 180
 cgcctcgtcg accggcacct ccgtccacga cttcatcgtc aaggatgcga gcggcaaaga 240
 cgttgacctc agcacctaca aggggaaggt tcttctcatt gttaacgtcg catcccagtg 300
 tggcttaact aactccaact aactgagct ggcccagctc tacgagaagt acaaggacca 360
 aggctttgaa atcctggctt ttccatgcaa cctagttgg 399

<210> 49131
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G3

<400> 49131

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 ggcggctctc gcagcgtgg gcttgctcat ggtggccacg ctggtgtaca ccttggccac 120
 cgacggctcg ccgttcgcc ttgagctgtt tacgccgtgg atggtggcaa cactggctga 180
 tttttatgtt aatgttattg caatctcggc ttgggttatc tacaaggaag caaactgggt 240
 tagttctgct gtgtgggtgg ttctgttgtt ttgctttggc agtgctgtca cttgcgctta 300
 tattgttaag aaacttcttg aagtaacatc tgcagggtca tccaagatc ctcttgacct 360

tctatttatc aggcaaggta atctatccca aagaaagtgc tcttatgttg taattggaag 420
 gggtattttc agcattttgg ggatattcat g 451

<210> 49132
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G4

<400> 49132

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 agatcatcac ctgtcttgct gaccctagat atgtccaaac tgcagggaaa ttaaattcttc 180
 atgtgtaatt gtgctcattc tgtttcaatc atctcaacat ccgatcatga acctcttgca 240
 ttattaactg gctcgatcgt cttctcagtt taagacgttg gaggctgctt t 291

<210> 49133
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G6

<400> 49133

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 gaaggccagc acctcagcgc cgccgccatc gtcggccacg acggcagcgt ctgggcacag 180
 tccgagaact tccccgagtt aaagcctgag gaggttgctg ggatgataaa ggactttgat 240
 gaacctggaa ctcttgacc aactggtctt tttgttgag gtacgaagta catggtgatc 300
 caaggtgaac ctggagttgt catccgagga aagaaggga ctggaggcat tactatcaag 360
 aaaactggca tgtccttgat tatcggtatc tatgatgagc caatgactcc agggcaatgc 420
 aatatggtgg tggaaaggct cggcgattac ct 452

<210> 49134
 <211> 424
 <212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-G7

<400> 49134
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 gactacgccg ccgtcaccgt gcagctcccg gggggcgagc gcgtgccgtt cctcttcacc 180
 gtcaagcagc tcgtcgccac cggcaagccc gagagcttcg gcgggccctt cctcgtgccc 240
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 aacgccgtcg cgctccccgc cgggggcaga agtgacgagg aggagctcca gaaggagaac 360
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 gaga 424

<210> 49135
 <211> 451
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-G8

<400> 49135
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 ccgtccatc cgcaggcccc gcgcagccgc cgtggtggcc aagtacggcg acaagagcgt 180
 ctactttgac ctgcagcaca tcggcaacac caccggacag tgggacctct acggctctga 240
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 caccaagaga ggtctgctgc tcaagttcct gctgctgggc ggcggtcac ttctggccta 360
 cgtcagcgcg tcggcgtcac cggacctnct gccgatcaag aaggacctc aggagccgcc 420
 gcagccgggc ccgcgcggca ggatctaagc t 451

<210> 49136
 <211> 470
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G9

<400> 49136

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gcaagatcca ggacaaggag ggcattcccc cagaccagca gcgtctgac tttgcgggca 120
agcagctgga ggatggccgc actctcgcgg actacaacat ccagaaggag agcacccttc 180
accttgttct ccgcctcagg ggtggtatgc agatctttgt gaagaccctg actggaaaaa 240
ccataaccct ggaggttgag agctcggaca ccatcgacaa tgtgaaggcg aagatccagg 300
acaaggaggg catccccccg gaccagcagc gtctgatctt cgccggcaaa cagctggagg 360
atggccgcac cctagcagac tacaacatcc aaaaggagag cacccttcac cttgtgctcc 420
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<210> 49137

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-023-Q1-K1-H10

<400> 49137

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accaacaggt gatctgcagg ccatcaagaa agctgacgat ggcgaggaat ccttggacga 180
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gtactggtgg tttggtcatt tgggtgtacc gaaacagcga aactntagt gtatgtttat 420
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<210> 49138

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H11

<400> 49138

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gagggctcta ggcgctcatc aacgctccca accaactgta attagccttg cacggaagct 120
accaacaggt gatctgtata ccatcaagaa agatgacaat ggccaggaat acttggacga 180
caatgacctg acttataacg atctgccgat ccaacaggcg cagagaacag accacatact 240
atgccatctg ctgtggaaca tctgtcaaaa gaagttatgc cagttacata ctaaaaactt 300
gtggccaaca ttcccatatc tataaacatg acatcagtag ggccaatta tgttgcaccc 360
gtactggtgg tttgatcatt tgcagttacc gaaacagcga aactttaatg gtatgtttat 420
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<210> 49139

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H12

<400> 49139

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ccgccgttac tccgctggac agctcctcag ggtgaacata tacagacacc atctcgccat 120
gcccgcagcc atcatcatcc gccagcgcag cgccagggtc tatcctgaat ataacgtcgg 180
aatggtcacg gatcacacac tcttctcttt gatagacgga ctctcaagt tcgagatgta 240
tcggcctatc atgaagaacg tttgtgttta cccatatgag aagggtgcctg ataaccata 300
ctggtacaga gcaaggaata gagagtactt ccgcatgcag agtctacgga tgaacgcgac 360
atcctaaggc gccgctgac ctgagttgat actagctgct gccgatgaaa actctgaagt 420
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<210> 49140

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-H2

<400> 49140
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tacttttggg tgacaaaaag atcaccaacg caagggatct tatcaatggt ttggaagaag 120
ccatcagagg tggataccca atcctgataa ttgctgagga tattgagcag gaggtctctg 180
ctacccttgt tgtcaacaag ctcagaggat cattgaagat tgctgccatc aaagcccctg 240
gttttgagga ggcgaagact cagtacttgg atgatattgc catccttact ggagcaactg 300
taatcagaga tgaagttggg ctgtcacttg acaaggctga caaatcagtc cttggaacag 360
cagcaaaggt tgccttact aaagagtcga caacaattgt tggatgatggc agcaccagg 420
acgaagttac taagaagggt gcacagatta aaaat 455

<210> 49141
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-G1

<400> 49141
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ggagatggga gattgactga ccgcaaggta aggacggtgg atttcattaa cacacttctg 180
atcatgacct caaatgtacg aagcagtgtc atcgagaatg gtgcacggta gatcggattt 240
caccattgct ctgatgagaa tgacagtgag ttcagcagga tcatgagcct gcacatggac 300
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<210> 49142
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E4

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agtttctgtc accccaaata agaaccgagc tcttctccgg atagaactat cttcacaggg 180
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 ccctactaga tgttctcggt gatgcgtgga ttttatacgt gtacttggtc tcttggtgctt 360
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 tggttt 426

<210> 49143
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E5

<400> 49143

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 ggcgacttcg gctttgatcc ctggggcctc ggatctgacc cggagagcct gcggtggaac 180
 gtgcaggcgg agctggtgca ctgccggtgg gcgatgctcg gcgcggcggg catcttcac 240
 ccggagtcc tgaccaagat cggcgtcctc aacacgccct tctggtacac cgtcggcgag 300
 cagcagtact tcaccgacac caccaccctc ttcacatcg agctcatcct catcggctgg 360
 gccgagggcc gccgctgggc tgacatcatc aagcccgaa gcgtcaacac cgaccccatc 420
 ttccccagca acaagctcac cggcaccgac g 451

<210> 49144
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E6

<400> 49144

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 ctctaataat cgctacttct cgattatcaa tctaagaac gcactgtcag acaggaacgg 180

tgtctgtacc aaatgcagca catgccttat gggccaattt caaagaatac atctctctta 240
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catgcctgtg actgaagaga acgtggagag agtgctcgac gaagta 346

<210> 49145
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E7

<400> 49145

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aagaagcgta aacggaattt tgagagggag aaggctcgtc aggccctaca ggagatggag 180
agaactgtag aaattaatga taacctccat ctcaaggatt tggaattgct tggaacagcc 240
acaacagaac atattgtaag ctctgttgat gagactagtc cagaacgctc tcatgatggc 300
atggccggct atcatccagg agctgtcaat cctttggagc aacttggact gttcataaag 360
gtagacgatg aggaagacga cgagcagtgt tccttgcatt aaagaaagca gagaaaggag 420
aatcagctg atggtgct 438

<210> 49146
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E8

<400> 49146

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gtgcagtcac cggtaaaggc atttctgatt tggagagcgc tgtaatagag gtcaggggta 180
ttgagcatgt gccttctgag ggacgaaggt ggaccgtaaa tcagaggcaa tttgaacagc 240
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tggacttttg gactgtggac ttgaaggaag ctgcgcttgc ccttgcaaca atcagcgggg 360

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<210> 49147
<211> 451
<212> DNA
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<223> Clone ID: LIB3078-023-Q1-K1-F1

<400> 49147

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gctccgcccc ggtcaattaa ggattggatg cgtatgtagg cctgttgatc aaggactatc 180
ttatctagcc acatgccctg agaatgggac agggtaagct tgaaccggc tattccatac 240
atgaaaagac aatcgcgcac tgggcgtgga gagatggcga gagtggcacg taccctcctg 300
gcaacggatc gcctaaaagg ggtggtgtac tctcgggtgg cgcgacctg ttcatgcagt 360
ggaggatccg tgggaatagt agacatcaag gtttacgagt aacatatgtc gtgtgggttag 420
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<210> 49148
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-F10

<400> 49148

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ctgaagtctg agctctccct cctccgcgta gccaaagtca ccggcggcgc acccaacaag 180
ctctccaaga tcaagggtgt ggcacacctg atcgcgcgcg tgctcacagt gatctcgag 240
aagcagaagt cggcgttgcg ggaggcgtac aagaagaaga acctgtctcc cctcgacctc 300
cgccctaaga agaccctgct catccgcgcg cgtctgacca agcaccagct ctctctgaag 360

accgagaggg aaaagaagcg tgagaagtac ttcccatga ggaagtatgc tatcaaggcc 420
tangtcagaa ctgtgagatg ctgcgcttag catatcatcg gc 462

<210> 49149
<211> 296
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-F2

<400> 49149

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tgcgcgngc agtcgggtac tctgttgccg cgcgcggcag ctcaagtggcg cgttcatgcc 120
gtgcatgatg cgggtgacgt gcgggatggg cacgtcgctg cctgagaagc tcgcaccgtt 180
ggcgttcgtg tggctgcaga aaggctcgtc tggattgtaa ttctctctac ttatttttgt 240
aaattgaccc agaaaagctg ctgcttgacg cgccaaaaaa aaaaacgatt ttcac 296

<210> 49150
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F4

<400> 49150

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ttggactggc acttaacttc tcagtgttct actatgagat tctgaactca cctgatcgcg 180
cctgcagtct tgcaaagcag gcttttgacg aggccatctc ggaactggac accctgagcg 240
aggagtccta caaggacagc actttgatca tgcaggtgct acgtgataac ttgaccctat 300
ggacttctga catctcgtag gaccctgctt aatagattaa ggaggcactc aagcgcgact 360
cgag 364

<210> 49151
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F5

<400> 49151

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cgctgcttcg ttggcggcat cgactgggcc accgtcgacc actccttcaa caactccttc 180
aacacctacg gctaggtcat catgtcgaat atcatgatgc atcggtagac tcataggtgc 240
tgcggcttct gtttcatgac ctactccacg cagcagcgga tgcacagcgt catcgagggc 300
atgaacggca aggagctcat cagccgtaac atcaccgata acgaggccca gtcccagggc 360
ggtcgtggag gctgcgggtg cgataaccgt gacggacgcc gttacggagg cggctacgga 420
ggctcgcgtg gaggtacgg cggttgctgt ggaa 454

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<210> 49152

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-023-Q1-K1-F6

<400> 49152

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cagctcggtg ccaacaaaac ctcaacaacc aagtttcatg tctgatctcg acgtccagct 180
tccatctgcc tttgatccgt ttgctgaggg aaatgctgag gactctggtg ctggtcctgg 240
aacgaaggat tatgtgcatg tgcgcatcca gcagcgcaac ggcagaaaga gtctgactac 300
agtccagggt ctgaagaaag agttcagcta taacaagatc ctcaaggatc tgaagaagga 360
attctgctgc aatggtactg tagttcagga cccagagcta ggccagggtca ttcagctcca 420
aggatgatcag cgcangaatg ttgctacttt 450

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<210> 49153

<211> 432

<212> DNA

<213> Zea mays

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<400> 49153

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 aggtggtgct ggcgcgggcy aaccccaagg acgagtacca gcactggatc aaggacatgc 180
 ggtggagcac gagcatcaag gacgaggaag gttacceggc gttcgcgctg gtgaacaagg 240
 cgaccgggga ggccatcaag cactcgctgg ggcagtccca cccggtgcgc ctggtgccct 300
 acaaccggga ctttttggac gagtcgggtgc tgtggacgga gagccgcgac gtcggcaacg 360
 gcttccgctg cgtcgcgatg gtcaacaaca tctacctcaa cttegacgcc ctccacggcg 420
 acaagtggca cg 432

<210> 49154

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F8

<400> 49154

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 aactctgacc aggcgagggga cttegacctc cccttgaagg agcggttcta cctgcagccg 120
 ctgccgcccg cggaggcggg ggcgaggggtg aagacgtcgg cgcaggacat catcaacctc 180
 aagccactca tcgacaagaa ggcgtggccc tacgtccaga acgacctccg cctccggggc 240
 tcctacctgc gctacgacct caagaccgtc atcgcttcca agcccaagga ggagaagcag 300
 agcctcaagg agctcacccg caagctcttc agcaccatcg acgatcttga ccatgccgca 360
 aagatcaaga gcaccccgga ggccgagaaa tacttcgcag caaccaaaga tgcgctcggc 420
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<210> 49155

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E3

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 ggaccagggg aaagcctttt tcttggaat ggcctacct tacccttgga aggaacttat 120
 ccgattatt aa 132

<210> 49156
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-D11

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 tcgacaagct tggcggagct tttgctccca agccatcttc tggacctcac aagtccaggg 180
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 ggctgcttta tgacaccaag ggccgcttcc gtcttcaccc aatcagggat gaggatgcca 420
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<210> 49157
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-D12

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 gcgcagagca tccttgccat ctgggcctac cacttcattc tcatccgag cctccaggct 180
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<210> 49158

<211> 366
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49158

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 cttctatatg atcatcttat tatcagctgc tagactgcaa ttgggcttat gtttggtcac 300
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 taaaaa 366

<210> 49159
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-D3

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 catggggcgc tgactggggt gatgatggtt acttcaagat ggaaatgggc aagaacatgt 360
 gcggtgttgc tacgtgtgca tntacccta ttgtcgcgtg aggcccttac gaaatgttac 420
 atggtctggt tggcatcaat aatgcatg 448

<210> 49160
 <211> 307
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-D5
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 tactgctcga gaaagaagtt gaacggctga aggctgctta accagatgct gcaccaagag 240
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<210> 49161
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-D6
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<210> 49162
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-D7
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<210> 49163
<211> 451
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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gatccatata gccaacgcan ggtggtgagg a 451

<210> 49164
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-023-Q1-K1-D9
<400> 49164

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<210> 49165
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E1

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gaggaaaggc gccgctggcg cagggtttgt ctgcagtcgc gtcacgtca gcaagcgcgc 240
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<210> 49166
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E10

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<210> 49167
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E11

<400> 49167

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 gctttccaag attgtctcaa caactatggc agcgagatca gcaagtgccca gttctaccta 300
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<210> 49168
 <211> 465
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-E12

<400> 49168

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 gcccgaactc cagatgttgc tgaagcacag gcccagctg ctgaggagga ggacgatgat 180
 gatgttgacc tttttggtga ggagaccgaa gatgagaaga aggctgctga agagcgtgct 240
 gcagctgccca aggcttctgg caagaagaaa gaatctggga agtcatcagt tttacttgat 300

gtgaagccat gggacgatga gactgacatg gccaaagcttg aggaagctgt taggagtgtc 360
cagatggaag ggctgctctg gggcgcatcc aagcttgtcc cagtcggata tggatatcaag 420
aagctgcaaa tcatgatgac catagtcgac gatcttgtct ctgtc 465

<210> 49169
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-D1

<400> 49169

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gatggtgctg aagatgttga tgacaacgat gaagaggaag acaccgaaga tgatgatgag 120
gattcggacg acgacgacga tgcgagagaa gaaacagaag aggaatttct ggaaagatat 180
gcactagcgg cggctgcggg cgagtcagtc gaggaaggag acattgatga agagacccaa 240
gacatcgaat tgggctctct ggatgacgtg gacatacagc aggtgggttat tcccctgatg 300
cagaaacttc ctgctctgca gcccgcggga gcgtttccgg acagcctggt tgaaagaatt 360
gcagaaacat tcccgaata cgaacagttt ttgcaagccc ttcgacgagc ttagagtata 420
ggaaacatgt gcagatTTTT ctcttttttg tatat 455

<210> 49170
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B6

<400> 49170

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gtcgtgctgc cgccgcaccc aattcgagat ggacaagata ttgccactga aggaggtgct 120
tgacaagtac tggccgtccc tctactgctc caaatctgga acatgcttca gcggcaaggg 180
actcttctgg gctcacgagt gggagaaaca tggaacctgc tctgcccctg tggttcagga 240
tgaattacag tatttcaccc ttgcccttga cctctactcc aagtataacg ttacggaaat 300
gctgtcaagt ggaggggatac aggtttcaaa tggttaaggaa tatgactga gcgatgtcat 360

653760" 544660

cgataccatc aaacatgctt ttgggggatc gccacatatt gtttgcaaga ggggttcaat 420
cgaagaactt aggttatgct tcgacaaaga a 451

<210> 49171
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B7

<400> 49171

gttcaaagtt atattgacaa gggattcaga gcgatcgaaa agctgttga aggatgtgag 60
agtaaatatg ctactggaga tgatgtccaa ttggcagatg tgttccttga accacagata 120
catgccggca taaatcgctt ccaaatcgat atgtcgatgt acccaatctt ggagaggctc 180
catgatgcat acatgcaa at tcccgcatc caagccgcgc ttcctaaaaa tcaaccagac 240
gcaccttcat cataatcatc aagattatct caataatttg catgtcattt tgtaataatt 300
tggataggga gccactgctt cctccatccc gttgtggatc aaaaggggtga acgattggca 360
cttacctgca tggccaata cctattatat ttcttaaaca gatactattt acggctattg 420
taatttaagc ccaatacctg c 441

<210> 49172
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-023-Q1-K1-B8

<400> 49172

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tgtctccatc ttccggagt cagtaagctc agcatcacat ggtaaaccg acctcgtgct 120
gaagaggcgg aacataaaag ctggagccgc tacagcactg atggcaggca ggggaagcc 180
gtcctcgtgg cagagcgcca gttccacgag ctcaaggact cggatgcctg ttctggcagc 240
acgcaagtag gcagctcgtt gcctcaggct ttgtgtggga aatagggggc ttgtgaaata 300
tggacttgcc cgtaatatg ctatgtttct ttggtgtac tatactcac 349

<210> 49173
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-023-Q1-K1-B9

 <400> 49173

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 gtcgctgctg gggcgctcgt cgttccggga gatgtactcg gcgctcaacg ccgtgtcggg 180
 ccactacatc agcttcggcc ccacggcgcc catcccggcc aagcgccgcg cccgcaccc 240
 cgaggagatg gacaccgccc agaaggcgct ccaacggggc aggtaggcca aatcccagcg 300
 aagctggccc gttgcaggaa cgcgagtgcc cagctcggcg acaacgctac cattttgttt 360
 ttgtaactac tgcgatgcat tcgtcgtcgt tgttttcgcg gctgggagcg tgtgtttgtga 420
 ctgtggagta aaaagttacc gagcttttga gctgagtttg cgactt 466

<210> 49174
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-023-Q1-K1-C1

 <400> 49174

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 atgtgtaaaa cattcactat ttctcctgag gattacttga ttattagtga taaaggaaat 120
 gtctgtcttg ggcttctcaa cggaacggag attaatcatg ggtcaactat catagtagga 180
 gatgtttctc tgcgcggcaa gttggttgtg tacgacaatc agcggaagca gattggatgg 240
 gcagattcag actgcaccaa accttaatca caaaagggtt ttcctttctt tctctgacga 300
 agcatcactc tctacataat acatgtgtaa agcgtaaata gtgaacgcca ttgtattgta 360
 gaatacatta ttaagtggag actgcctttg tgtatgggta tatc 404

<210> 49175
 <211> 465
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C10

<400> 49175

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 gtgggcaagc ccaaggtggc ggcgtccggc agcccctggt acggccccga ccgctgaag 120
 tacctcggcc ctttctccgg cgagcccccg agctacctca ccggcgagtt ccccggcgac 180
 tacggctggg acaccgccgg gctgtccgcc gaccccgaga ctttcgcaa gaaccgcgag 240
 ctggaggtga tccactcccg ctgggccatg ctggcgcgcc tcggctgctt cttccccgag 300
 ctgctctccc gcaacggcgt caagtccggc gaggcgtct ggttcaaggc cggctcccag 360
 atcttcagcg agggcggggt ggactacctc ggcaacccca gcctgatcca cgcgcagagc 420
 atcctcgcca tctgggcctg ccaggctcgt ctcattgggtg ccgtc 465

<210> 49176

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C11

<400> 49176

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 ccaggagagg attgctaggc atgaagctgc tcatttccta gtcgcctatt tgattggcct 120
 ccctatcctt ggatattctt tggacatcgg aaaggagcat gttaatttga tagatgagca 180
 attacaaaag ctaatatata gtgggcagct tgatggaaag gaactagaca ggtagctgt 240
 agtttcaatg gcaggactgg ctgctgaagg tctagaatat gacaaagttg taggtcaatc 300
 agcagacctt ttcaccttc agaggttcat aaacagaact aagccgcaac taagcaaaga 360
 tcagcaacaa aaccttacca gatgggcagt cctgtttgct gcatcacttc tgaagaacaa 420
 caaagcagcc catgaggcgc ttatgtcagc gatgtccca 459

<210> 49177

<211> 292

<212> DNA

<213> Zea mays

aaaaaaattt atatatatat accagctgga gccgtagtgt tggagtaact ttgttctgta 420
gatgctctgt ctttaatggg acatct 446

<210> 49180
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C6

<400> 49180

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accaaggtgg cggcgcggac ggcgatcggg ttcgtcgtca tgggcttcgt cggcttcttc 120
gttaagctca tcttcatccc catcaacaac atcatcgtcg gttccggcta ggcttacagg 180
agtacagggc gactagcatg ggagtagtgc aatacttttg ggagcaatag ataacgagga 240
tcctggtctt tcgaatagta ttgttaatga aatttttcgt tcggttgtgt ttctgatgta 300
atcgttgtag tgagtagacc ttctggatac cggattctga gtagacctt gaatccttga 360
tggatcagcc aatctcggaa aggaagtttc gtattttgtt gttccgttaa c 411

<210> 49181
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-023-Q1-K1-C7

<400> 49181

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ttcgtagcgc cggcgtcca tcttccgctc cctcccttag tcgcgctcgg cagcgggtg 120
acggcggcag tggcggcact caggatcggg ctctcagcga cggcatcagc ggtttcccct 180
cccgttctc tccagtcgcc tcgcgcctc gcctccggtc ctccgcacac cagccggtga 240
ccctccatat aggggtgtgag actacaaaaa ctcgaaaatg aacaagggaa agatttttaa 300
gctagccaag ggattcagag gaagggcgaa aaattgcata aggatagcaa gagagagggt 360
ggagaaggcg ctgcaatatt catataggga tcgacgcaac aagaagagag acatgcggtc 420
tctntggatt gagcgcacat atgctggtac ac 452

<210> 49182
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C8

<400> 49182

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 cgtcttcccc gagcttctcg cccgcaacgg cgtcaagtcc ggcgaggccg tgtggttcaa 120
 ggccgggtcc cagatcttca gcgagggcgg gctggactac ctcggaacc cgagcctcat 180
 ccacgcgcag agcatccttg ccatctgggc ctgccaggtc gtgctcatgg gcgccgtcga 240
 gggctaccgc atcgccggcg gcccgtcgg cgaggtcgtc gacccgctct accccggcgg 300
 cagcttcgac ccgctcggcc tcgccgacga ccccgaggcc ttcgccgagc tcaaggtcaa 360
 ggagctcaag aacggccgcc tcgccatgtt ctccatgttc ggattcttcg tccaggccat 420
 cgtcaccggg aagggcccgc tcgagaacc 449

<210> 49183
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C9

<400> 49183

tggacttcat ctacgcagtt tcgggtgctt tcaactgaga gtcagtgtg tttgttgggg 60
 gttccttggg actccctccg tttcgtttta gttgtccctg gatagtgc atatagaacta 120
 ttcagcgacc tctaacgtta aaccgagata ttatcatcaa caccatgtac gtgttccta 180
 ctaccgctac taggcttgct tttctgagca tgagattcag aaagttcatc ttgtattaca 240
 acacaatgca cggctgctaa ctgatgccgt aaccgtgaa tgcaacactc aacgctacag 300
 cagatgtacg agcctccatt tataggatgc agtcttaaga actctcaact tcgacatcat 360
 tcgattgcta taccagaacc tctaatac 388

<210> 49184
 <211> 449

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-B5
 <400> 49184

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 gaagcgggtg cagctggccg cggccgaggg ccgccgcgcc gctctgctcg gcctggcggc 120
 cgtcttcgcc gtcacggcca ccaccgggtc ggccaaggcc acgatcttcg atgagtacct 180
 cgagaagagc aaggccaaca aggagctgaa cgacaagaag aggctggcca ccagtggcgc 240
 caactttgcg cgcgcctaca ccgaggagtt cggcagctgc cagttcccct acaacttcac 300
 tgggtgccag gacctcgcca agcagaagaa agtccccctt atcagcgacg acctctagat 360
 tgagtgctag gtgaacgaga agttcaagtg cggcttcaac gttctctgga agtggcgaat 420
 caactagcag cagcgtttga tgggaatgg 449

<210> 49185
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-A3
 <400> 49185

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 caagaagaag atcaggagcg ccatcgacgc ggccatcagc tggctggacg ccaaccagct 120
 cgccgaggcg gacgagttcg aggacaagat gaaggagctg gagagcctct gcaaccccat 180
 catcgccaag atgtaccagg gcgcggtga agacatgggc ggcgctggcg gcatggacga 240
 ggacgcccct gccggcagcg gcggccctgg cccaagatc gaggaggtgg actaagcggc 300
 ttgttgcag tcttgagtgt gctgcagttg ctggctggcc cagttgctgc cgagagttat 360
 cgtcagttgg tgcggtgtgt ccgcttaaac tttatttggg gatggttggc acttttgtgg 420
 tggttatttt tttggacctc gtga 444

<210> 49186
 <211> 429
 <212> DNA
 <213> Zea mays

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gaaggtgatg ccggagctgt tgaaggacat caccaccgag atccaccaca aggtcaccga 180
gaactggatc tacgacacgc tctcctcac cctcgtcgtc ggcacctacc aatacgccat 240
gtggtacaaa gagcaggaga agctttccca cagatactaa atgggatgtt ctccaagatg 300
ctgcggcttg tcgcagttga attttccatg atgggttgca taatctgtca atgtcatttc 360
tttggtcagt tttaggtcaa cccattttca cctttacata tgcataatcg tgatctgtgc 420
ctgcaaacat at 432

<210> 49191
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B11

<400> 49191

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acatctgatg tattagactt gatggagatt ggacaagcaa atagagcagt tgggtcaaca 120
gcgctaaaatg aacgaagtag tcggtcacac agtattctaa ctgtacatgt tcgagggatg 180
gatttgaaga atggatcaac ctctaggggt tgtttgcatc ttattgatct tgctggtagt 240
gagagggtag agaagtctga agtatccggc gatagattaa aagaagctca attcattaac 300
aaatcactct atgcgtagg tgatgttata tactgctttg cacatagaag tgcccatgtg 360
ccttatagaa acagttagct tacacaagtt cgtcaaagtt ctctatgtgg a 411

<210> 49192
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B12

<400> 49192

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gactgtggct ccagctgctc ctgcggcagc tcatgcaact gcatgtcccc taacgtggag 180

accgccgccg ccagcagcat caagaccacg gtcctcgccg cgccgaccac caaggccagc 240
gccggcggtc tcgaggcggc caccgagggc ggcggctgcg actgcaacac ctgcaactgc 300
ggcaccagct gcggctgctc ctgctgcagc tgcaactgag ccggtcaggc gatggcgcac 360
gagagtcgag aggacgacga cgagtcgtat aaatataata gcggcgtcta aataagatcc 420
tgtcaactgc acccgccatt atcgatccat ggctgctcct ggg 463

<210> 49193
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B2

<400> 49193

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ggattgtgct cgctggtgcc gctgccacca gatacccttg ggaaggaact gacagagatt 180
ataagtatga agagctgctt ggcagagtat tcaacatttt gcgtgagaac aaccggatc 240
ttgctggtga tagaagaaga actgttatga ggccccctca agtcctcagg gaaggaacaa 300
agaagacagt ttttgtgaac ttcattggact tgtgcaaac aatgcatagg caaccagaac 360
atgtgatgat gttcttgctt gctgagatgg gaacaagtgg atccctggat gggcaac 417

<210> 49194
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-B3

<400> 49194

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gtgatttcaa aattcgaca gtggagcaag atgggaagac cataaaactt caaatttggg 120
atactgctgg gcaagagcgc ttcaggacaa tctactagcag ctactaccgc ggagctcatg 180
gaatcattat tgtatatgac gtgacagacc aagaaagctt caataatgtg aagcaatggt 240
tgaacgagat agaccgttat gcaagtata atgttaacaa gtccttggtt gggaacaaga 300

cccaagaggc gtacgaggag gacgactaga tgccgtgcgg agcccagaga gtgcagtgcg 360
 cgcaacagtg agcagactat catcaaggca attgggagge gtggtgccct taaagcatgg 420
 gagtgatctc tggttttgct gtcgccgagc ttggaaatat gaagctgaat cgacctc 477

<210> 49197
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H1

<400> 49197

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 cgaatcaaga ggctggttta tggggccaag gcagaggctg ccatcgccat tggatttgat 180
 gacttcattg cagatgctct gagaggcact gggttctacc agaaggccaa cttggagatc 240
 aagaaagctg acggcaatgg tgcattgatc gctgagcaag tctttgaaa gactaaagag 300
 aagttccaga tgtactgatg ctgagcagaa gagagatctc agatttgtac aatgcttac 359

<210> 49198
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H10

<400> 49198

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 cctcggcgag gccggcgcca tcgccgccgg cgccttcgca ctctacgaga agcacgaggc 180
 gaagaaggac cccgagcacg cgcacaggca caagatcacg gaggaggtcg ctgccgcggc 240
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 ggacgccgag gaggctagcg gcgagaagaa gcaccaccac ctcttcggct gaccgtagta 360
 ccggccggcg cgcgaccgag ctagctagct ccggcgcaca caaccacaca cctgtttaat 420
 tctgtactgc atgcgtgtgt aatttgatgg ttcacaataa tga 463

<210> 49199
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H11

<400> 49199

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 tctcagcgag gccgtcgcca tcagacgagg ctccttctca ctctaccaga aacactaggc 180
 gaagaaggac ccttagcacg cgcacagtca caagatcacc gacgacgtcg ctgcctctgc 240
 ggccgtctgc gctgcggtt acgtattcca cgagcaccac tagatgaaga atgaccacaa 300
 tgactccgat gaggctagct gcgagaataa tcaccaccac ctcttcggct gaccgtagta 360
 ccggacgtcg cgcgaccgag ctagctagct ttctcgaca caaccacaca cctgtttaat 420
 tctgtactgc atgcgtgtgt aatttgatgg ttcacattaa tgagtccta 470

<210> 49200
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H2

<400> 49200

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 gagagacatt tgaggaggct gcgagggtga aggagggtcc tgaagcggaa ccggaagaga 180
 agaaagactc gtaattttgt tgcgtgtcat atccattgtt tgtgaagggt cgttgtgtgt 240
 ttaccataca ccatgggaga gacctggtca tctatgaacc cctgatgttc ctcatcgtt 300
 tacatgtgct ccagtttcag tttcttattt acctgggttt tgggtccaaac ctgacaactc 360
 agcatttggt ttggcgtcaa ttgtgcttta tggtccaaaa aaacattact gcagtatgga 420
 tt 422

<210> 49201

<211> 414
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-H3

 <400> 49201

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 cccgcgtcat ggctgacgc gctgacgcg ttccggcccg agcggttctt gaacggcagc 180
 tccggcgcca gcgtcgcgt gcgcggcgcg cactttgagc tgctgccgtt cggggccggg 240
 cggcggatgt gccccgcgca cggcctcgcg atgaagctgg tgaccgctgg cgtggcgaac 300
 ctggtgcacg ggttcgcgtg ggggtgccc gacggatagg cggcgaggga tgtgagcatg 360
 gaagagctat ttgggctttc cacgcgccgg aagggtccgc tcgtcgnctg cgcg 414

<210> 49202
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-H4

 <400> 49202

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 aaggcgttcg gtgacattgg cgagagcggc accgagtacc cggcgcccta tgccatcgtg 180
 taccgcaaca tggccatcct cggcgtggat ggcttcggct cgctcccgaa aaactgcctc 240
 accctctgct acattttctt tgcggcagcg atcactatca accttgtcag ggacctgacc 300
 ccctacaagg tgtcgagggt catcccgtg ccaatggcaa tggcgattcc gttctacatc 360
 gggtcctact tcgccattga catgtttctg ggcagcgcga tcctcttcgt gtggg 415

<210> 49203
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3078-022-Q1-K1-H5

<400> 49203

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gctggactac ctggggagcc ccaacctggt gcacgcacag agcatcctgg ccatctgggc 120
gtgccagggtg gtgctcatgg gcttcgtcga gggctaccgc gtcggcgggcg gcccgctcgg 180
ggaagggctc gacaagggtg accccggcg cgccttcgac ccgctggggc tcgccgacga 240
cccggacacc gncgcgagc tcatggtgaa ggagctcaag aacggccgcc ttgccatgtt 300
ctccatgttc tgctttcttag tgcacgccat cggtcaccgc aagggcccca tcgagaacct 360
cttcg 365

<210> 49204

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H6

<400> 49204

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ccggcgcgca gatcttctcg gggggctgtc tgatctacct gggggacggc aacctgggtg 120
acgcacagag catcctggcc atctgggcgt gccagggtgt gtcctatggc ttcatcgagg 180
gctaccgcgt cgcccgcgcc ccgatcaaag aatggctcga caagttgtac ccctacggat 240
ccttcgaccc gctgggcctc gtctactacc tggacaccgg cgacgagctc atcatgaatg 300
agctcaagaa cgcccgccctt gcca 324

<210> 49205

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-022-Q1-K1-H7

<400> 49205

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acctcgcccc ggcgctgccc cgcgcgacg gcggcaagca gtaccggtac ttatctatct 120

gtcactgtgc ctatctatct gtcactgtgc cttttgttta tcaactgtct gtcacgctct 180
 ccgtctaata cgagaacatg atgcatgctt gcacgtacac acacaggcac cttgagggcg 240
 cgtcgtccct gccagcggtc gcgcgcagcg cgttcctggt ctgatcatgg cgtcggcgac 300
 ggcgggcgact cgtcgtcatc caccacgagc acgacggcgg tgaagacaat aagaaccaac 360
 caaaaccact acacgaagca tatatacaga ttactgtcaa cgtattgtag aaccaaggat 420
 ctatngatat atat 434

<210> 49206
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-H9

<400> 49206

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 cgctctccgg cacgcgccac ctgctggcgg acgactgggc gcctgcggcg aagccgcggc 120
 agctgagctc gcagctcgcg ctgccgtcgt cgctctcccg cgggcccggc ccgctcccg 180
 cgttcaccga tgaggcagtg gaggcgccca aggggttcgt ggccccgcag ctggacccca 240
 gcacgccgta cgcgatcttc tgaggcagca cgggcaggct gctccgaaag gcccaagtgg 300
 aggagtcat acgtcatcac gtggacgtcc accaaggagc aagggttcga gatgcccacc 360
 ggcgggcgcc ccatcatgcg ggagggcccg aacctcttga agctggcgcg caaggagcaa 420
 tgcttggtgc tcggtaccag gttgcgtac aagtacaaga tcagctacca gatctac 477

<210> 49207
 <211> 291
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-A1

<400> 49207

gcgcggcgcc gtcgtactta cgctccaggc cgccggagat gggcgcgtna tactaccgc 60
 gcaagtgcgg ttacggtcgc tcttgaggag cacgatggcg acagagcggg ggcgccgtgt 120

cgccagttcc gaggagcctg cgatgggcaa caagatgtac gctcacggat ttggggaggg 180
 atcacctgca cgtaaagcgg cgatcaagct gccgcacttc tttaactaca tcgatgtcaa 240
 cagtgtccta gcacagcttg agagttacaa tacggaagcg tacttggagc t 291

<210> 49208
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-A10

<400> 49208

cccacgcgtc cgttttagaaa ctatgacagc aaatggattt gaaattgatg ttgtcacatg 60
 tggaaacttc attaatggtc tatgcaaggc tggtaggact caggttgctt tgaagctttt 120
 aagaggcatg cgaattaaag ggattagacc tactccaaaa gcttacaacc cggtgataca 180
 gtctttgttt agactgaata atttaagaga tgctcttagt cttttcaggg agatgactga 240
 ggtgggtgag cctcctgatg ccctcacata taagattgtt ttccgtggtc tgtgtcgtgg 300
 tggagggcct atcaaagaag cttttgattt cttggtggag atggtgaata agggtttcat 360
 gcctgagttt tcatectttc gaatgctagc tgaaggtcta ttgaatctgg gcatggatga 420
 ttatcttatt agtgcatttg aact 444

<210> 49209
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-G7

<400> 49209

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 agcatggaac ggaggaaagt tcagtggaca gatacatgtg gaaaggatct ttttgagata 120
 agggagtttg aaacaagcga cgagagtctg tcagatgatg acccagaaaa tgaaggtttc 180
 cggaaatgtg agtgtgtgat tcagtagatt tcttgtgtgc acaacaagcc tgacaggaac 240
 atctcctcat gggagccca tgtcctgctg agaaggatat gccgtatgtt cttctgggaa 300
 ggatatgcca caccagtgga tttcattgca actgggacga tcgatgacag tcaaaacata 360

gcaaacgggtg atgagtcgat attgtgctag attatntgnt ggttctacgc ttaactagtc 420
tgctcggcag gggtatagtt tcgatgcc 448

<210> 49210
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-F2

<400> 49210

ggagaagatg acccaaatta tgtttgagac tttcaatggt cctgccatgt atgttgcaat 60
ccaagcgggtg ctctcactct atgctagtgg gcgtactact ggtattgtac tcgactctgg 120
tgatgggtgtg agccacactg tgcccattta cgaaggatat gcccttcttc atgccattct 180
tcgtttggat cttgctggtc gggacctcac agactccctc atgaaaattc tctactgagag 240
gggttactcc ttcacaacct cagccgagcg agaaattgta agggacatca aggagaagct 300
agcatatata gcccttgact atgagcaaga gttggaaact gccagaaca gctcttcagt 360
tgaaaagagc tatgagctac ctgatggaca agtaatcacc attggtgcan agagattc 418

<210> 49211
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-F5

<400> 49211

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gcgcacaaga cttccggat caagaagaag ctggcgaaga agatgcgcca gaaccgcccc 120
atcccctact ggatccgcgt gcgcactgac aataccatca ggtacaacgc caagcgcagg 180
cactggcgcc gcaccaagct cggcttctga gcgtcgggat tggccggctg ctgcgtcgga 240
aggctagggt ctaagagcta tcttccttct gttgtatcaa tgtgtcagtt tttctgtaag 300
ctagcaagtg ttgctatgac gctnntatta agattctggt gagcggatgat gttaagagaa 360
aaatggcact actgtggtgt accccaagat tccttgacgc attgctatgc taagtaaaga 420

accctntatc tntatatata t

441

<210> 49212
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F6

<400> 49212

ctttgataaa tatggcaggg tcgcatatgt aagaatcaag aagaactttg actttatcgg 60
gtttgagata caggacgatg ctacaagagc attggagggt actaatggaa gccatttcat 120
ggacaggggtg atctctgatg agtatgcact tcgtgatgac gatgaataac gtgatagagg 180
taacgtgtac agcccatata ggagaggtag tgaaagatcc gcaggtcgaa agcgatcttc 240
tagtccttac ggtggaggac cggagagagg tagcccagat tactggagaa gcaaggagag 300
ggggagccca tactatgggt ggagaagacg cagtctgat aatggcaatg gagtaagctc 360
atctggtcgt agcagaggcg atcatg 386

<210> 49213
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F7

<400> 49213

cccacgcgtc cggcgggatc gagactacgt cgacctcgtt gggagctgag gccgtcacccg 60
ggcaggtcac ggaggtcaac aaggacacct tctggcccat cgtcgaggcc gccggcgaca 120
aggtcgtcgt cctcgacatg tacaccgaat ggtgcgggcc ttgcaaagtg atggctccca 180
agttccagga gatgtccgag aagaacctgg acgtcgtgtt cctcaagctg gactgcaacc 240
aggacaacaa gcctctcgcg aaggagctgg gcataaaggt tgtgccgacg ttcaagatcc 300
tcaagggcgg gaaggtcgtg aaggaggtca ccggcgccaa gatcgacgag ctagcggaag 360
ccatcgagat agccaacaag aagtcaggct gacaaaggaa tagcaagatc gacgtgcagt 420
gcaagcaagg atgaatggat gatcgatgaa ct 452

gaagtcactt gcccgtagac atggtttccg caggcggatg cggactactt ctggaaggaa 300
 ggtactgaag cgcangcgcg ccaaaggcag gaaggttctt tgcacaagga caaactcaaa 360
 cagtgggaag aaaagaatgt tctaattaca ctgcaatttg atgtgctcgc aac 413

<210> 49219
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-G3

<400> 49219

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 aagatgcaga tcttcgtgaa gaccctgacg gggaagacca tcaccctcga ggtggagagc 120
 agcgacaccg tcgacaacgt caaggccaaa atccaggaca aggaagggat tccccagat 180
 caacagcgac tgatattcgc tggcaagcag ctggaggatg gacgcacgct ggctgactac 240
 aacatccaaa aggagtcaac tcttcatttg gtctcaggc ttanggggtg aaccatgatc 300
 aaggtcaaaa ctctcactgg gaaagagatc gagatcgaca ttgaaccac tgactcgatt 360
 gacaggatca aggagcgtgt tgaagaga 388

<210> 49220
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G4

<400> 49220

cccacgcgtc cgcaggacgc ttccccgccg agtgcttctc aacgcagttg gcgaatccgg 60
 catggttgct tctggtgaca cattgcttgg tttgtatgag aaagaacggt taggcctggt 120
 gcagtatgcc gacgatgagt ctaaagaaga gaggtactgg gaaaccttgg atgctgattt 180
 gcgttactgg accagatccc tgcgccagc gcaagtggat cctggtcata ttgcaaaaac 240
 agagaaagaa ttgaaggaac aattgaggct catggatgct gtcatagaga tccgtgatgc 300
 taggattccc ttgtccacca gccatcctaa gatggactca tggctaggca accggaaaag 360
 gatcatagtc ttgaatcgca aggacatgat ctcaactgag gatatgaatg catgggctac 420

ttacttttggg aat

433

<210> 49221
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G5

<400> 49221

cccacgcgctc cgctttaatg gcaattctga atacgctgat caccttgagc cgtttaatgg 60
ggtggaacct atgaaagctg ccggtctact gcaccacctt gagactactg atgagggaca 120
aaaagatcta actaagtcac agatacctgc tcacggggca attggtgctt acaggacagc 180
ttattatcaa tcccatgcac cggcaggatg tcgcgctctg ctctgtcggg ataactctga 240
tacttatcgt 250

<210> 49222
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G6

<400> 49222

aaaggcacta aatgcttctc ggaacatggt tcctgctact gagctccaga ggcagatctg 60
ctactctata atggaccta ccttggttgg cgagcaatca tccaagccta tggacacgat 120
ttccactggt gccgatttga gaaggaagca tacaagtggg aaatacgag aaggcacaca 180
ctggcataca cgatttactc atctcgtaac ctacggtgct ggctactata cctatctata 240
tgctagatgt tttgccacaa ctatatggca agaagtatgc caagaagacc cgttggtccc 300
cagtgcaggc agtgccatca gggacaaatt cttgcggttc ggcgggtcaa aggacccatc 360
atccctgctg aaggattttg caggtgatgc cgtcattaga aactccggga gtggaataat 420
cccgaacgct ag 432

<210> 49223
<211> 401
<212> DNA
<213> Zea mays

aagcattttg aagcctgaga tcgtcatgtg agagttctcc agttttaact acagtacatt 180
 cttaagttct tcgactaagt gaggattgca gatccccctt tataagtgat atctattggt 240
 atctttggcc taattcaaac agcttcagac atgttcgctt gctaaactgt tgacgatgta 300
 tccttgttct ttgttgaaaa agtttgtact tgtagtgtca atcatatttc acaagtgggt 360
 gtcatatata ctgagggagg ttttggaccc ttgatctaca gaagttcaat acaatagtag 420
 caggaataag ttatTTTTTT t 441

<210> 49228
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-E6
 <400> 49228

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 tctggccgag aagctcggga ggctggcggt gcagctcgtg gccggcgaga gcggcatcaa 120
 gggcgtgaag gtggtgtaca ccacagcgcg tggccccgac gacctggaca ctcggtcct 180
 ccgcgcgatg gtgaccaagg gcctgggtgga gccgggtgtcc agcacgttcg tgaacctggt 240
 gaacgcggac tacacggcca agcagcgcg cctccgcctc acggaggagc gcgtggcgca 300
 cgacagcccc gcggcgagg cgccgctgga gtccgtccag gttcgctct cgcacgtgca 360
 gtccaagtgc gcgggtgcca tcagcgacgg cggggacgac atcgtcctgg agggccgggt 420
 caagta 426

<210> 49229
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-E9
 <400> 49229

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 gatgtcgtcg gtgttcagcg gcgatgagac ggcccccttc ttcggcttcc tcggcgccgc 120
 cgccgccctc gtcttctcat gcatgggccc cgcgtacggg accgcgaaga gcggcgctcg 180

cgtggcgctcg atgggtgtga tgcggccgga gctcgtcatg aagtccatcg tgcccgtggt 240
catggctggt gtgctcggt tctacgggct catcatcgcc gtcacatca gcacggggat 300
caacccaag gcgaagccct actacctctt tgatggctac gccaccttt cgtccgggct 360
tgctgtggt ctcgtgggc ttgcagctgg catggccatc ggcattgtcg gtgatgctgg 420
agtcagggcg aatgcgcaac agccaaagct tttcgtcggc atgatcctc 469

<210> 49230
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F1

<400> 49230
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gacaagtgga tgcgtacgtg tgataggcga gatacatcga aatttggaca tgtaacatta 120
tcgtgaactg cgcaccgctc gggatactat gatgaaactg acgaagaaca tgctcaagtt 180
gctacagaca ctggagatac acttaatggc gctcccagaa taaacgcgct tcaaagcgct 240
gaaaaagcta g 251

<210> 49231
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F10

<400> 49231
acgacgcctt cctttacacc atgtacacat aacaaatcct tcaatgaagt actcacaatg 60
gctattatag gggaatcttg cacaacatcg tgatgaacag aaaaataccg gcaccactgc 120
gtatatatcc ttttactaa ggtttgtacc ggagctgctc ctgcaaattc caagcatgtc 180
gacttgacta cttattgtcc atagcaaaag ctttcctcct ggcaatacag actgcaacaa 240
ctgaagacac ttctaactac acacgttcga ctagttcact accccttcta tattcgcaca 300
tatactgata attatcacia tacgatatcc agaaaactac atgattcctg tcatacagta 360
tatactgaaa gaccatatac cgaattcact gcgtgtatct atatgt 406

<210> 49232
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D7

<400> 49232

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 gtagcagctc gctctgtcct gcaacaatgg ccgctcgctc ctctctccag cagctggtcg 120
 cggcggcggt cctggcagcg gcgctgctgc tgctggcggc gggggccggg acggcgctcg 180
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 gcagcgcggc gtcgccctcc gggcggtgct gcagcggggt gcgctcgctc aacagccgcg 300
 cgtcgtcgac ggcggaccgg caggccacct gcaactgcct caagagcatg acgggcccggc 360
 tcggcggcgg cgtcagcat 379

<210> 49233
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C3

<400> 49233

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 ccggcggcgc cttcgaccgg ctgggcctcg ccgacgacct ggacaccgcc gccgagctca 180
 aggtgaagga gctcaagaac ggccgccttg ccatgttctc catgttcggc ttcttcgtgc 240
 aggccatcgt caccggcaag ggccccatcg agaactctt cgaccacgtc gccgaccccg 300
 tcgccaacaa cgctgggca tacgccacga acttcgtccc cggcaactaa ctgactgagc 360
 aacgccgtac atgtgtacta ccatcagatc catccattc 399

<210> 49234
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C4

<400> 49234

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gagggcatgc ccgtcccca ggacccgtcc aggaaggga acctccggat aaagtctgac 120
atcaagtcc cggcgaggct ctccggcgac cagaagtccg gcgtcaagag gctgctcggg 180
cagtagagcg cctcgtgttc tgggtgtgtg tgtgtcagac atttctgtgt tggttgatct 240
tgaactgggg gatgctgcca tttgcagcgt ccgtgacgac gacgacgagg aggcaggcca 300
ccgagcgtg agtacagaac aagctagtgg tggatatgg ttgagacctt gagatgcaca 360
gcataggatt ccttgtgcaa tcttcagac ggggtgtgt tgtctgttca ccgggtccatg 420

<210> 49235

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C5

<400> 49235

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gttcaaaacy tgatttgctt tcatgccgaa aaaatgtgcc cggcacatca tttgtctcag 120
atctgagaga tcacatccac gagttcatca acgcctcttc tgatgaacac atgacatgct 180
tcacaaagac tatcaagaag atgttcggga tgtcaatgac tgcgcacat aaatcctcga 240
aagcagagga agctgggccc gcatgactgc atctcaccat ttcataattg actaggtagc 300
agccagtaaa catatcttgt gtagataaca ctgtgtccac acttttgact gataagatta 360
tgtacacttt tgactgataa gattatgtac agttacatgg gccatgtatg taataatttt 420
act 423

<210> 49236

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C6

<400> 49236

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gcctaagcct gagccggaac cagaaccaa gccagagcca caaccaaagc ctgagcctaa 120
accagaacca aaaccagagc caaagccaga gcctaagccc gaaccaaacc cagagccaaa 180
gcctgagcct aaacccgaac caaggccaga acctaagcca gagccaaagc ctgagccgaa 240
accgaaacca gatccaaagc cagagccaca accaaagcca gagcctaagc cagaaccaa 300
accagagcca aagccagagc ctaagcccga accaaaacca gagtcaaagc ctgagcctaa 360
accgaaacca tgaccagaac cagaaccaa gccagagcct aaacctgaac cataaccgaa 420
accatgaccg gagccac 437

<210> 49237
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-C7
<400> 49237

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agcatctccg ccgaccgcgt ccccgacatg gagaagcgga agctgatgaa cctcctcctc 180
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cctgccggct ccgggaacgc cggcggcggg acctacgca aggacaagct gggcaacgac 300
atcacggtgg aggcgtggct caacacgcac ggtcccaacg accgcacgct cgcgcatggg 360
ctcaaagggtg accccacgta cctggtggtg gagcatgaca agacgctggc catctacggg 420
atcaacgccc tgtgcactca 440

<210> 49238
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-C8
<400> 49238

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 actcttgccg ttgagaagaa atatggaggg tgggtaagcg cgaagatggc ggacttggtt 180
 acagactatg ctgacttctg ttttaagacc tacagcgatc gcgtaaagca ctgggtttaca 240
 ttcaatgagc caaggatagt agcgctactt ggctatgaca caggggtcaaa ttctcctcaa 300
 aggtgcacca aatgcgctgc tgggtgggcat tcagcaaccg aaccttacat agttgctcat 360
 aattatctct tggcacatgc tactgcagtt gctagatacc gtacgtaata tcaagctgct 420
 cag 423

<210> 49239
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-C9
 <400> 49239

gaaatggaag agcactgccca gtttgcatgc cccctttgct ccaagtcggt ttgtgacatg 60
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 aaaatggtcc gcatattatg caacgactgc ggggcaatat cagatgtgca gttccatttg 180
 attgcgcaca agtgccagaa ttgcaagtca tacaacaccc gccagatttg aagtaagaat 240
 cgcaagtcac acaacaccgt cagatctgaa atagcaaacc ctgtgggggt ttctgcattt 300
 cttcaagaag cgtgatggac tgatggcccc ttcccgtgag ctgctgagca ccgggatatc 360
 tggcaagaca ctcatcactg tatccactcc actgggtcct gcggaggcaa acagctcgag 420
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<210> 49240
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 <223> Clone ID: LIB3078-022-Q1-K1-D1
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tccttgagat tgttgaatt gggatatacag ggtgggtcac ataccgtaac ctctgttt 418

<210> 49243
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D5

<400> 49243

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gctcaggctc cttgcgcggc attcctgtcc atccgcttag gtggcgcgac ggcgacgcgg 180
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gaggaggtgg tagacctcaa gggggagctt ttctgtctcc gccttaagcg ctggcgcgcc 360
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gtgaaaagag agcgggaaat tg 442

<210> 49244
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C2

<400> 49244

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gagaccgtca agaccatcaa gatcggagcc ccgccgccgc cctccggtgg actccccggg 180
actctgaact ctgaccaggc gagggacttc gacctccctt tgaaggagcg gttctacctg 240
cagccgctgc cgccggcgga agcgggtggcg aggggtgaaga cgtcggcgca ggacatcatc 300
aacctcaagc cactcatcga caagaaggcg tggccgtacg tccagaacga cc 352

<210> 49245
<211> 421

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-A8

 <400> 49245

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 cctcttgccg ttgagaagaa atatggaggg tggttaagcg cgaagatggc ggacttggtt 180
 acagactatg ctgacttctg ttttaagacc tacggcgatc gcgtaaagca ctgggtttaca 240
 ttcaatgagc caaggatagt agcgtactt ggctatgaca caggggtcaaa tcttcctcaa 300
 aggtgcacca gatgcgctgc tgggtgggaat tcagcaaccg aaccttacat agttgctcat 360
 aattttctct tggcacatgc tactgcagtt gcaagatacc gtacgaaata tcaggctgct 420
 c 421

<210> 49246
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-A9

 <400> 49246

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 gctggcccc cagatcggcc cggtcgggtct ttcccccaag aagatcggag aggacatctc 180
 caaggagact gccaaaggact ggaagggcct tcacgtcacc gtcaagctca ccgccagaa 240
 ccggcaggcc aaggtctccg tcgtgcccta cgacgcggcg ctcgtcatca atgcgctcaa 300
 cgagccagag agggaccgca agaattgtcaa gaacatcaag cacagcggca acatcagcct 360
 cgacgacgtc atcgagatcg gcaggaccat gaggcac 397

<210> 49247
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-022-Q1-K1-B1

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gctgtcctcg ctgggaactc cagccctctt gccgaggact tgacagccat tctggagtca 180
gttggctgtg aagttgacaa tgaaaagatg gaactccttc tgtcccaact gagcggtaag 240
gacattaccg agctcattgc cgacggcagg gagaagtttg cttcagtccc atgtggcggt 300
ggcgggtgtg ctgtcgcggc agctgcccct gctgctggcg gcgctcctgc agctgaggcg 360
aagaaagaag agaaggtgga ggagaaggaa gagagtgatg acgacatggg cttcatcctc 420
ttcgactaag cttgtgcaat agtcaagaat a 451

<210> 49250
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-B2
<400> 49250

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tcgtcgggag ggtgtctctt gtcgccgctt tctctctctc cgcctaccag gaggtttaag 180
aattcgggtgc tgatggtgga ccagcagcta aggcctctcg gccc aaattc aacggggttg 240
gcaaaaatgt atctgtcat ctgggagtag ctgtgccaca cattgagttg aagcatgtga 300
ttgctgctac aattggtctt aagggtcttg gaagcctcct ttttattttg agcagctctc 360
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acaac 425

<210> 49251
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-022-Q1-K1-B4
<400> 49251

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aaccagtgggt gagtgatttc ntgatttgta tgaacttcaa ttactttctgt atgcagcatc 240
atcnttcata tatgctatat cntgctagat tatctgtatg acactccctt cctgttgctc 300
actggaacat gtttgtagct caacttggga gatatttttg tacggctagg ccttattcta 360
agaaaacatc aatttaaagtg tgggacagag agtttaaggt aaatgaaaat ttgaatatcc 420
tgttgacttg acacatcatt catttgtgcc tagataaaaa ggaacgcctt cgacttatct 480
actactacta caaacacaaa 500

<210> 49254
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-B8

<400> 49254

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gcctccgccg ccacgcgcca cctgctggcc gccgcctggg cgccggcggc gaagccgcgg 120
cagctgagct cgcagctcgc gctgccgtcg tcgtcctccc gcggggccggc cccgctccgc 180
gcgtccaccg aggaggcggt ggaggcgccc aaggggttcg tggccccgca gctggacccc 240
agcacgccgt ccccgatctt cggcggcagc acgggcgggc tgctccgcaa ggcgcangtg 300
gaggagttct acgtcatcac gtggacgtcc cccaaggagc aggtgttcga gatgcccacc 360
ggcgggcgccg tcatcatgcg ggaaggcccc aacctcttga agcttgcgcc gcaggagc 418

<210> 49255
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-B9

<400> 49255

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<210> 49256
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C10

<400> 49256

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gatcgggggtg agatgtcggg ggcagattcg gacaggttca cattcatcat ccagctgggtg 120
gagagcctac actagctcgt acataggcct atgtagcaaa tagccgattc atacactatc 180
atggacatta cagacactta cgtgacttac atcaggttcc tgtccactga actaatcacc 240
cctaccaata acataaca 258

<210> 49257

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-C11

<400> 49257

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aggacttcca gtacaggaag tattactgac actacaccta tctcgaacgc caagacacga 180
tcggcttctg ggaggatgtc ttcgaatgct accatcaagc tgatccttct gaactcttcc 240
aagcactcat cttctcagca tttcctcttg ctatcatact gtgtatgatc tgtcaaagtg 300
cctgatgagt acctatacat ctttaccgtc gacatgatca tagtcat 347

<210> 49258

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-B12

<400> 49258

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gcctaaaacc cgccgccatt cggccccaaa aaaggcccca agttgaaaat cctgaggcgg 180
aagtcctact gttccaacgg aatcggcacc ttcttaacct tcaataagga tcttaaaacc 240

ctttacccgt tgttggtccg ttttaaccaag ttgaactacc ccggcttggt taccaacaat 300
tacgctttga acaagatctt taaggatgaat ttattaaggc catttt 346

<210> 49259
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-C11

<400> 49259

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atacctacca catccactcc cagactatcc caaacataaa cccatgccaa taaatgcaca 180
tgatcaacca agtacaattc cctctaagtc ttatgaacca taagaaatga accctatacc 240
ctgtacactt cctacaaatc ataaccgtta tgccactcaa aaaactccta ttcccaatca 300
gacactagca tcataaatat cactaac 327

<210> 49260
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-D11

<400> 49260

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tggtaaacat ggaaattgta tgtttcagtt ttaagattgt acaattttta cttattgctt 180
ca 182

<210> 49261
<211> 196
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-E11

<400> 49261

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tctgtggctc aaaacttgga cttggcatga ttccaaaatc tcatatcctt cctatttcac 120
ctcccttgcc cttttactca tcttacttgc ctttctctct ttaccttctc cctctattcc 180
ttcatttgaa tcccat 196

<210> 49262
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-H11

<400> 49262

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ggagccggag ccgtctgtgg ctgaagaggt gaaggaggaa gcggcagcgc ccgctgccga 180
gacagaagca gaaccggcag ccgcgaggcc cgaagctgtt actgccgagg agccccgggc 240
ggctgagccc gaggtgctg ctgccgaaga gcccgagaag gcctagccgg ccgctgaggt 300
ggccccaaaa gccagcgagt gaagtcgtgc cccgtacgcg cac 343

<210> 49263
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-H12

<400> 49263

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ccgtggcggt agcgcggttg gtggtcaaag ttctctgggt tacctctttg gaagcgggtga 180
gcccccaaaa ccagcagtgg caccagctgt aagtgtcca cctgctgctg caggtgctcc 240
acctgctgag aaaccacctg ctgcaaagcc tgatggcacc agtcagattg ctgctggggt 300
taccagccaa accaattact accacaaggt cgacggtcaa aacacccgga aacttc 356

[illegible]

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tctgtgccag	gatccccaga	gggcaggaga	agttcctcgc	catcatggat	ctcaagggct	120
ggggctacgc	aaactgcgac	gtccgggcct	acatcgcggc	cattgagatc	atgcagaact	180
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agttccttgg	cggaagatg	cctctcgtct	ccctcaagga	cta		403

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aagtagtcat catcgttcga agtgcagcgg aatgaaacta acgatgggtca aacagacaga 60
tggggaagcc tgtcccatca ctctcatgc tcctcctcag ccgaggcggg atccgactga 120
actgttcaac ccggtggcaa gatggacgac caagtcactc cagcaaccat gtacttcaga 180
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<211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H10

<400> 49275

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gatgagtttc ctgttcggga agcggaagac gcccgccgag ctgttaagag aaaacaagag 180
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agtaatggcc aaagacctta ttcgtacccg gcatcagata acaaagttct accaactcaa 360
atctcagctt caaggagttt ctctaagagt tcagacacta aaatcaactt aagctatggg 420
tga 423
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<210> 49276
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H12

<400> 49276

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gaaaactcgt ctctctattc aagcttttagc ctataggagag ggcttcgcgt ttgctgtata 240
gatataaaaag gtttggttaa aatctgatgc tacgaaaatt ggctggtata attattttgt 300
actggatttt cccttagaat caaatataga tgggat 336
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<210> 49277
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H2

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 tcatggggtg cgtgctgcag ttgtgctcac ggtttgctgc ggggccatgt tcttcagcag 360
 cagcagcaga tgaagaaatc tagcagtgcc taccctaata tttgcatac acaagccaca 420
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<210> 49278

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H3

<400> 49278

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 cactgggtct actggatcgg cccgctgctc ggtgggcccc tggcaggctt cgtgtacgag 180
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 gattgctggc tgtagaaatt gttgggtttt tttgggtttt ctgccaagga attctttctt 420
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<210> 49279

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H4

<400> 49279

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ggcttc 366

<210> 49280
<211> 401
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-020-Q1-K1-H6
<400> 49280

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<210> 49281
<211> 461
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-020-Q1-K1-H7
<400> 49281

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 agttaaaaaa aaaatgtttg acgaaacgca tacggatgcc attccggaca tttcgtcaca 420
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<210> 49282
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-H9

<400> 49282

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 gttcacccgc tggaaaacct gcctgttgaa caggtccttg acagaaatgt tcctgaccga 180
 taaccagtga aaccatctga tgtagaggat acaccatcta cgcttggtca agatcacaaa 240
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<210> 49283
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-A11

<400> 49283

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gcaaccaagt tcaaccttct ccaaacatct ttggagacct ctctttcttg cgaccgcaa 360
atgaatggaa gaagagtgca tgggtggttg ttaccttggt gatccttttg ataggaacag 420
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<210> 49284
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<212> DNA
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aaggcggcgc aggacgcgct gctgctgcgc gccaaaggcca actccctggc gcagctcggc 180
aagtacacct ccgacggcga ggccgccgag gccaaaggagg gaatgttcgt caagaactac 240
agctactaat taatcgcccg gccatcaccg gggataccgt cgaccctccg agagatacgt 300
gtgtactgat catggttaag cacgtactcc gatccattcc catcccatga agccatgata 360
atgatgatat gatccatgga ccatgcatgg tgctctggtc gatgccgtac gtgtgtccct 420
gatacaatac tatttttagta ctgatgctag tcatcat 457

<210> 49285
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-020-Q1-K1-F4
<400> 49285

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atccggagac ttcatttcag gccgggatgg acgactacgc ccgggagatg atggagctca 120
agacgctcgt caccgcacc ctcgagaaga agggcgctct cgccaagatt agggctgagc 180
taagagcaag cgtgtttgaa gccattgaag aggaggatcg ggtggagaat gatgatggag 240
ggaaccctgc tttgcttggg agctgtaatg accgagctaa gcaactgcat gcttcacctt 300
caggtaggtt actaactgca cttgtatgcg aatacttggg gtgggacgcaa ctaagtcaca 360

caatgaaagt ttacttgcca gagtgtaacc ttgccaaaga cttctggaag aatgaactga 420
aagacttctc taacaaaagt ggagctgaag ggag 454

<210> 49286
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F5

<400> 49286

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gtgcatctag cgctgttttc cctcgccgac gacctctatc cgagagcgac gagcatggcg 120
cactccctcg ccgactactt ctcgcccggc gccgcgcggc gccaggcgac aaatgcgatt 180
tcaagccgga gctcggatgc cttccatgag ccacaggatg acttctgtat ccatgacgtg 240
tcaagaccaa gctctgtacg gatcatgac tgcatgtcag gtacgaatga gactgtcgac 300
aaggctgtaa gtatagttaa cgagcagctg actcttccag atgggactgc tatcactggg 360
gaatcagaat tcgcccgaact tgggtgctgat tcaactggata ctgttgaaa 409

<210> 49287
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F6

<400> 49287

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cacggccac atccgcccga gcgtgggctg gcgcagctgg ccagcctatt acgtgtacgt 120
gcgggaggag ctgtcagtag cgtgcggacc accacgcaga tgctgccgtc tggcgaccga 180
tctctgattc attgatgctt tcgtgaaatg ctcccgccag cgaacttctc ctgtacgcgt 240
gcatcaatgc ttcttctact actatgcctt ttgtttattt ttaaggagac 290

<210> 49288
<211> 460
<212> DNA
<213> Zea mays

<400> 49290

cccacgcgtc cggatctacc taccacggca tcatcatgaa ctaccctgat cagattgacg 60

gtatcgggtgc actagatcag gactgccgca cctcacacat agatgtcaag ccagctgaac 120

tcgttaccaa gattgatctg cgatccgtca aggagctgga gaaagagccc aaatttctca 180

ggagctgcga tgctgggatg gtgaagatag ttcacactaa gcccatgatg gtggagacct 240

aatctcagta tactccttta gttcaattta gctgccatga catgatgcat actgtgactg 300

gcggattcat caagagtgtg gaaaagaatg acgcaactgg atccaaggtg acgaaagctg 360

ct 362

<210> 49291

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G10

<400> 49291

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cagctagcta ggagcagcag cagcggcggc ggcgatggcg gtctccatga tctcctcgtc 120

agctctggcg gtggcgccctc agggcctgcc gccctcggc cgccgcgcct cctgcttcgc 180

cgctcgtctgc tccaagaaga agatcaagac cgacaagccc tacgggattg ggggtggcct 240

gaccgtcgac gtcgacgcca acgggagaaa gggcaagggc aagggcgtgt accagtctgt 300

cgacaagtac ggcgcgaaac tcgacggata cagcccaatc tacaacgagg atgactggtc 360

tcccaccggc gacgtctacg tcggtggaac cactgggctt ctgatctggg ccgtcacctt 420

cgctgggatc ctcggcggc 439

<210> 49292

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G11

<400> 49292

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gcacccgttc cttcgcacac cggcgggtga ccctgagttt cgttcttggt aactattcaa 120
gaagtaggaa atgatgagca acttccaagc cactacttgc aagcctcaca gtaggatcat 180
tgtgaagaaa cctatagcaa gtcttggaag cacatgtcag tatccattat attcacatgc 240
tctcggattc cacaagctgc aagagaaggt gtaccaagg ctagttctca tttctgctag 300
ccacaaaagg cttacttctg tatgtgcct 329

<210> 49293
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G12

<400> 49293

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cagacattgg aggcaagggt ttattcacca aggagataga tgatgcgctc ttgcaggga 120
ggattgatat cgctgttcac tctatgaaag atgttccaac atatctacct gaaggcaca 180
tattgccctg taacctacca cgagaagatg tcagagacgc attcatatgt ttgactgcaa 240
attcgcttgc agagcttctt gctggcagtg ttattggaag tgcttctctg cggagacaat 300
ctcagattct ctacagatat ccatcactga aagtagtta cttcagagga aacgttcaga 360
cacggttaag gaaactcaag gagggagatg tctctgctac attgttggca ctggctggat 420
taaggcggct aaatatggca gaaaat 446

<210> 49294
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G2

<400> 49294

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gtgcgagcac ggcgggcgtg cccttctggc gggcgcccg gatgacctac atcggtact 120
ccaacatctg cgctgcgctg gtacggaact gcctcaagga gcccttcaag tccgaggccg 180
cgtcccgcga gaaggtccat ttctccatct ccaagtggac ggatggcaaa caggagaagc 240

aagccccgttg ctgttggctt cgccatatcc aagccagagc acgtgaagca gattgcgcag 420
tgngggcgctg acggngtgat catcggcagc gccatggtga 460

<210> 49297
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-G6

<400> 49297

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acggcacgat cttggccatg gacatcaacc gcgagaacta cgagctgggc ctgccctgca 120
tcgagaaggc cggcgctcgcc cacaagatcg acttccgcga ggggtcccgcg ctccccgtcc 180
tcgacgacct catcgcggag gagaagaacc acgggtcggt cgacttcgtc ttcgtggacg 240
ccgacaagga caactacctg aactaccacg agcggctgct gaagctggtg aagctgggag 300
ggctcatcgg ctacgacaac acgc 324

<210> 49298
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-020-Q1-K1-F11

<400> 49298

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ggcacctccc ttgcaattca agaactgggt tccttggaag gacacatggg attcgtcctt 120
gtgttttccc tgctggaaga gttggatttg tcagaacagt agtggaatgc aaggaatcta 180
gaattggaaa gcagcccatc gaagtcccat caaatgttac tctcacatta gaagagcagt 240
ttgtcaaagc taagggtccg ctgggggaggt tatctctgag ctttccaggt gactngaaga 300
tcgtgaaaga agaatccggt tacctgagag cttataagac tgcagagacc aagacggcga 360
accagatgca 370

<210> 49299
<211> 438

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-D9
 <400> 49299

cccacgcgtc cggtttcaac taatcagctt actaggatga agcctgcaac ggtgggactg 60
 ctcatTTTTgt tgaacatgat gtgcatagtt gcatactttg atcatggaac gatgggctgaa 120
 gaaaccacct tgctggcaaa ttcgtatgga agaaatgaag gaaccaaggg catacatcat 180
 ggaagaaagc tgatggacaa tagtattggt tcaaaccgtg agtattcaat cgatgatatg 240
 tctcatccaa aggcaccaca tactgagctc aagcaaccct catacttagc tcttggttgc 300
 tcaagcaacc ctctcaagca accctcaaac ttagctcctg gttgcattcc ctaaagttca 360
 tgcatacata tatagccttc cactcatcat atgctggtat ccgatctata tatagacaca 420
 tatgatatgt tgcatatc 438

<210> 49300
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-E10
 <400> 49300

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 gcaataattg agtacatccc attgttggcg agtcaattag gtgttgggtt tttcgatgac 120
 aagctggggg cgctctgcat gcaatgggtg gaagacaagg tcttttcaat cagagatgct 180
 gccgttaaca acttgaagcg ccttgcagaa gagtttggtc cagagtgggc aatgcagcat 240
 ataatccctc aggtgctgga gaagatcatc aaccacact atttataccg catgacgatt 300
 ctgcaggcaa tctccttgct agctcctgtc atgggtgcag agatcacctg tcaaaagctg 360
 cttccagtcg tcattaattc ttcgaaggac aggggttccca aca 403

<210> 49301
 <211> 311
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-E11

<400> 49301
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 gtatcagttt aatcaatcaa taagtttgtt caacttggga cattgttgaa ccatgtgcat 120
 tgaaatttgg gtggaactaa acagtctata ctccaaaatg tgagggcctt ggaaaccaag 180
 aggatgcact atatattttc aatgaacact atattgtttc tgtttcattt tatttcaaaa 240
 catggtatgt actccctgac ttcacttgag aagcgagaat tgtatacttg ttttgatggg 300
 ggtatgggtga g 311

<210> 49302
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-E12

<400> 49302
 aacaccttaa aagtggttgg cacatatggg tacatgtctc cggagtacgc aatggatggg 60
 atcttctctg tcaagtcgga cgtgttcagc tatggagtac tattgctgga gatcgtagt 120
 ggcaggagga acaggggagt gtattccagt tcaaacaacc aaagccttct aggccatgca 180
 tggagcttgt ggaacgagga gaagagcata gagctagcag atgagagaat gaacggacaa 240
 ttcaactcag acgaagtgca gaagtgcgtc aggggtgggc tactgtgcgt gcaagagaat 300
 ccagacgacc gtccgctgat gtctcatgtg cttctgatgt tagctagtcc tgatgccgca 360
 tcaactgccga ctccaaagca acctggcttc gcagctagga gagttctaata ggaaacagac 420
 acat 424

<210> 49303
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-E2

<400> 49303
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gactccagtt tacagggata ttgagtaaca tacctgaaga gaatcccgat ttctacaact 120
 ggaatagagt gaaggtccgg tactgtgatg gtggatcttt cactggtgat ggctctgatg 180
 cggctgcagg cctttatttc cgaggtcagc gcatttggca agccgctatg gatgacctaa 240
 tggcccaagg aatgcgttat gctaatacagg cccttctttc tggatgctct gccngtgggtg 300
 tttctaccat acttcactgt gatgaattcc atgga 335

<210> 49304
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E5

<400> 49304

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 acgaggacat cgacaagatc tgatgatcgc ctcttcaca cggtcctttt ccatggtaaa 180
 ctaaactgat gcaaaacaat tgtatccttc tgttttgtgg tggctaccat gactgaagaa 240
 tggtagtcgt ggtgatggta taatgatttg ggccgagagt actgtgtata atgatttggg 300
 ggcacttggt gtgccaata accccatatg gtgatatagc aagtatggga cttgacgaac 360
 ccgttccttt cctttctggt aatatgatat atttggttgg gcatgat 407

<210> 49305
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E6

<400> 49305

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 gtctagcctt caggaagcta tctctgtgcc ttggaatagt atacctatga acacggcgag 120
 gtcatactct gctatgagag ttctggagga tcatgaatta tctgaaggct gcaatcctgg 180
 ctaaacagca ctttctgata tagatgcagt tctggctcgg aggatggata tgcgtgataa 240
 aatgtctttg aatgagtctc gtatgactac tactctcgag gaacgactgc tatgatctgg 300

aaagactgag catgctcctg tatgtgctat cctgggtggc attgttggtc acgaggcgat 360
 caaatcgata tcttgcaagg gcgatccatg tatgaatttg ttctatatcg atgtggctga 420
 cggtaaaagt gtgatcgacg atataacc 447

<210> 49306
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-E7

<400> 49306

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 aggccgcccc caaatggtgg actagctgtc cagacaatgg gtagtgctc tcaagttgct 180
 tttggttacc cagcagtcca gctaccaaca cttgaaacgg gctcttcattg ggcatttggt 240
 gctccacctc aggtctctgtc ttcttttact gcaaaagaca aagctgatca aacaggaacc 300
 aagcaagttg acgatggcaa gaagccccag gaggcaggtg cttcctcgtc tgctcatgct 360
 gaagatgaga aaaaggctga tagaggactc tctcttatgg gttctgccat aaggccaggc 420
 atcgcaccaa atgtcanatt tggaggggtct ggatcata 458

<210> 49307
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E8

<400> 49307

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 cgaagggtgct cgatgtgtat gaccaactgc tgggggagag ccagtatttt gctggtgatg 180
 atttcttcct ggacgacctt gtgcacttgc ccaatgcaga tttccttggtg aacagaacca 240
 gcaaggctgg cttgatcacc gagagaaaga atcttgctcg atggtgggat gatgtctagt 300
 accgacctgc atggtaaaag gtcactgaga tgcacagcac gctcatgccc tgtagagct 360

gaatattggg tttctgtgag cagatgacga tggcaaatag gtgcattct 409

<210> 49308
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-F1
 <400> 49308

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 cgctggaggc ggaggcggcg aacaagagca agttcggcgt cacgctcggg ctgtccatgg 120
 cgttcatcgc cgtcattgtac gggctgttcg gcgtcatggg ctacgtcgcg ttcggcgacg 180
 ccacgcggga catcatcacc accaacctcg gagccgggtg gctgtcggcc gccgtgcagc 240
 tggggctctg catcaacctc ttcttcacga tgccgggtgat gatgaacccc gtgtacgaag 300
 tcggccagcg cctgctccac ggcaagcgt actgctggtg gcttacgtgg ctgctggtcg 360
 tcgtcgtcgg actcgccgac atgtacgtgc ccaacttcac ggacttgctg gcgctcgtcg 420
 agagcagtgt ctgcgtcctc ctcggttcg t 451

<210> 49309
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-F10
 <400> 49309

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 cgacatcgaa agcgagggac tcgcgagct cttcgaccag gccggcgctg tcgaggtcgc 120
 cgaggttatt tacaacatag agactgtcca gagccgtggg tttggctatg ttaccatgag 180
 cactattgag gaagctgata aagccattga gatgttcaac cgctatgaca ttagtgagag 240
 gcttctgaat gtaaacaggg catctnctaa gggcactcgc atggaaaggc cttcgagaca 300
 atttgcgctt gctttcagag cttatgtngg caacttgcca tggcaagctg atgactctag 360
 gctggtg 367

<210> 49310
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-D8

<400> 49310

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ctcagggcct gccgcccctc ggccgcgcgc cctcctcctt cgcgctcgtc tgctccaaga 180
agaagatcaa gaccgacaag ccctacggga ttgggggtgg cctgaccgtc gacgtcgacg 240
ccaacgggag aaagggcaag ggcaagggcg tgtaccagtt cgtcgacaag tacggcgcgga 300
acgtcgacgg atacagccca atctacaacg aggatgactg gtctcccacc ggcgacgtct 360
acgtcgggtg aaccactggg cttctgatct gggcgcgtac cctcgtctggg atcctcggcg 420
gcggcgccct cctcgtctac aacaccagcg ccc 453

<210> 49311
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C4

<400> 49311

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gagctcaagg tcaaggagct caagaacggc cgcctcgcca tgttctccat gttcggattc 180
ttcgtccagg ccatcgtcac cgggaagggc ccgctcgaga acctcgctga ccacattgcc 240
gaccccgta acaacaacgc ttgggcctac gccaccaact tcgtccccgg caagtgaggg 300
aggcgccgcc ggtgacctt aggtgtccgg atgcatgtga gcgcacgctg gttttcgggt 360
tgtaccatga tgtaaaactat tgttcaatcg acaaggaata attgtgttc 409

<210> 49312
<211> 336
<212> DNA

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agcgccatcg gcgggacggg cccgcacgtc tacacggcgt ccaagcacgc cgtggtcggg 240
ctcaccaaga gcgttgccgc ggagctcggg cgccacgggg tgcgcgtaa ctgcgtgtcc 300
cgctatgccg tgcccacagc gctgtcgatg ccgtacctgc cccaatgcgc gcgcgcaa 360
gacgcgctta aggactttc 379

<210> 49315
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C8

<400> 49315

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ggttccagca gttcaaggctc aatgtctatg acaagaagcc ggagcttttc gggcctctca 120
agtcgggcca gggccccaag tacatggtgt tcgcttgctc cgactcccgt gtgtgcccac 180
cggtgaccct gggcctgcag cccggcgagg ccttcaccgt tcgcaacata gccgccatgg 240
tcccaggcta cgacaagacc aagtacaccg gcatcgggtc cgccatcgag tacgctgtgt 300
gcgctctcaa ggtggaggctc ctggtgggtc ttggccatag ctgctgcggg ggcatcaggg 360
cgctcctctc actccaggac ggcgcacctg acaccttcca cttcgtcgag gactgggtta 420
agatcggtt cattgccaag atgaaggtaa agaaagag 458

<210> 49316
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C9

<400> 49316

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acaatttaga agcgcccttc ctctctccc ccatccgtac ccaatctaata cgacacccgg 120
ccgagatggg ccgcaagttc ttcgttggtg gcaactggaa atgcaatgga accacagatc 180
agggttgagaa gattgtcaaa accctgaatg aaggaaatgt tcctcttaa aatgtggttg 240

aggccgtggc cagtcctcct aaggggtccc tcc

273

<210> 49317
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-D1

<400> 49317

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gtaggtgtac atacaggagg tgctgacgat gccactgctc atatataagt aatagagata 120
gacatgtatg aaaaggggtct tttgttttta agttgtgggc tcggcctttt ttttctctct 180
ccttgattca ccgttggtcg aggctgttct ttttttttac cttccacata gaggagagct 240
tcttactaag aaggaagaat gaagaaggaa gcgcgtgggt tttttttttt tttttacctt 300
gatgctttt 309

<210> 49318
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-020-Q1-K1-D11

<400> 49318

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tcagatgttt ctccgctgta ggctgggttca agatcaagcc atctaaggag gaggtggcct 180
gttcatattg tgaaacatca tgatgcttat tttgggcata ttaagctatc ttctctggca 240
catcaatgat ttcagtagct tcaaggcccc tttattttaa aagttgattc tttgcataat 300
cctctctgtg ggtgcctaca aagttttaaat gtggacatgg ctgtcactac tcactagtct 360
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<210> 49319
<211> 381

<212> DNA
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 ccgtaagggt ctccgcgaca acatccaggg tatcacgaag ccggcaatcc ggaggctggc 180
 gaggaggggc ggcgtgaagc gtatctccgg gcttatctac gaggaaccc gcggcgtgct 240
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<210> 49320
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 <223> Clone ID: LIB3078-020-Q1-K1-D3
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 caaagggtga ctgtgatgag cacaagagtg tatgcagcaa gtatggagtt tctgggtacc 180
 ccacaattca atggtttccc aaaggttccc tggagccaaa gaagtatgag ggtcaacgtt 240
 ctgtggaagc ccttgcagaa tttgttaaca gcgaagcagg taccaatgtc aagatagctg 300
 ccattccttc aagcgtcgtg gttctgactt cagagacctt tgactcaatt gtccttgatg 360
 aaaccaaaga tgccttggtt gagttttatg ccccatggtg tggtcactgc aagcatcttg 420
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<210> 49321
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-D4

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 ttagaggagc tgcagcgtgg agagaagggc attggtgatg gaacagtgag ctatggaatg 180
 gatgatgccg atgacatcta catgcgggtca tggactggta ccatcattgg ccctcacaat 240
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 aagccacat ctgtcagatt ccaactcaaga atcaaatga catgcgttaa tcacgagaca 360
 agaatggttg atccaaggaa gtttggttg ctagcgaact ggcagcggga ctacacgatg 420
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<210> 49322
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 ctggactacc tcggcaaccc gagcctgggc cagcgcgaga gcatcctggc catctggggc 180
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 ccggaggcgt tcgcccagct caaggtgaag gagatcaaga acggccgtct cgccatgttc 360
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 gccgaccaca tcgncgaccc cgtcaacaac aacgcc 456

<210> 49323
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-C3

<400> 49323

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caagaacaaa cacgcgacct gcgcgaacga ctacgcaatt gagagcatcc attattcctg 180

caactacgcc tacaaagatg tggagcaaga catcactcta ggagatgatt attttttcag 240

taggtacccg attgtggaga agaggtttagc gcatgctgga atcagattgg cgttgggtact 300

taatcggata tttgggtggag gtgaagcggg tgatatacca ctaaaagtac agtaacagct 360

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<210> 49324

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B1

<400> 49324

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ggccagcatg tactcggcaa tgctcttgac tggctgggtca acttcggttg gtgagagcgg 120

aaagcttgtg gatgttgggt ggccatctgt ctgggtcagg attgcaacc agtgggcgac 180

ggcaggtctg ttcatatggt cgcttgttgc acccgctctc tttcccgaca gggaattcta 240

agttcaacca cggtaaacct ggagcatcaa acgtgtctac tggggtagct aatatatcct 300

atcaagtatg ttgcctttaa aacatgctcc gagtcggtgt ttgcccactg ttatcaagtt 360

tgtctactta ataacatgtg actttaggca ttgtgccact aatctaacag tgaacgtgtg 420

tgctgcttgt atgggtatat actggagaat tttaaagat 459

<210> 49325

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B10

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agccgcttca	cagcgccggc	gatcgactct	ccgaccgccg	cgagaatgcc	gatcaagagg	120
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gtcatcgtcg	atgtggtcga	ccagaacaag	gcacttgtgg	acgcccctga	tatgctcacg	240
tgccagatta	acttcaaacg	gctctcactt	actgacatca	agattgacat	caaacgcgta	300
cccaaaaagt	caaccctgat	caaggctatg	gacgaagctg	atgtgaatac	gaagtgggtga	360
aaacagttca	tggggcatga	agctgattgt	ccagaagagg	agggctgcgc	tactgacttt	420
tgacaggttc	aaggacatg					439

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<213>      Zea mays

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<400>      49326
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<210>	49327
<211>	432
<212>	DNA
<213>	Zea mays
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<400>	49327

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 acctgcatca gcgtcagggtg caccgtcgac ggcaaggacc ccaaggacct gcagcaggag 300
 attgatgact gccaagtcga gatcccgctc gcttgaagac tagacatcta aggggacttc 360
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 gcgagccatc ta 432

<210> 49328
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-B2
 <400> 49328

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 ggtcagcttg tactccacaa tgctattgac tggctggaca acttctgaca ttcagagcgc 120
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 tgcaggctcta ttcatatggt cgcttgatgc acccgctcta ttttccgaca tggaattcta 240
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<210> 49329
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 49329

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gaagaagcac atggtaacgg caagctatgt tgatgaatcc atgtcaaact tgagccaagc 240
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 cttgatgtca atgaagatga ttgatgaagc tcatgcacga aagggaaaaa taaaggcatt 360
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<210> 49330
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B6

<400> 49330

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 gtcgtcgtca aggactaccg tgaagaatct gagggcctta acatagagca ggagtatgtc 180
 aagtcgcact acatgtgtga catgtatcag tgatactctt gatttgtacc tgggcttaaa 240
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 agaggatatg tatgaacaat ttggacatct gaagtctgcc tgtctatggg gctgtcgtct 360
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 catgtgtcta taccatcatg ccattggctt atggaaat 458

<210> 49331
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B7

<400> 49331

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 accccagaca aaaagtctgc aagaccttct gccatcaatt atcaaccaac tgggccctga 180
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agcagctgca caggatgatg actacgtacc tgagcttgtc caaggagaga catttgaaga 300
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 tgaaggatcg tcggtttaat tgttggcatt agccttgcca gagaccctac ctgctcatct 420
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<210> 49332
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-B8

<400> 49332

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 ttactcgtga tgagacctcg aaggtagggt gtcgcgttgg gttgtctgct tgtagaaaca 180
 agagcttata tataaattac tactagct 208

<210> 49333
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C1

<400> 49333

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 ggagaaacat gtcgatttc gtatgttcaa agagaagggg ttatcctatg caactagaca 180
 tttttatcct tcaactggaat gttgagcatt gcagaattga caattgctat gccatcgagc 240
 aagttcagtc gtttgtaa atgctcctag taggaagtaa ctgaattatt cgcaaaaaaa 300
 ggaagtggct gaactattgt gccttttgca cgatgcttcg tttcaaggat tagccatgaa 360
 ttaacgttta tgtactc 377

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<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C10

<400> 49334

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<210> 49335

<211> 440

<212> DNA

<213> Zea mays

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<400> 49335

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cgttcgccga	gctcaaggtg	aaggagatca	agaacggccg	cctcgccatg	ttctccatgt	180
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<210> 49336

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-C12

<400> 49336

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gtcgcgctag ctgcgctcta tggtcgcg 328

<210> 49337
<211> 371
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-020-Q1-K1-C2
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aagtctcttn cagaccatca ttggactgaa gattagagac ctctatgaac agattgttgc 300
tgaaagggct ggtgtaccag cggaagcag caaaagttta acgatctatg cattcagatg 360
tcctaaaact a 371

<210> 49338
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-020-Q1-K1-A9
<400> 49338

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acggaatcgg ggatgttgat acaaaggaga aacctctacc catggaggct gccttaaatg 360
actacaaaag gctagattac atccagcgcc acatctcaac tctcaaggag tcaatagact 420

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446

<210> 49339
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-H3

<400> 49339

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aagagtatct tcattcatct gatgaacaca ctgagccata taacagatag ctacatgcaa 240
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<210> 49340
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-H4

<400> 49340

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aaaaattatt cccccactt ggggactacc ttggtgttaa gagccatgct tgcgttgag 180
gaacatctgt tcgtgaggac caaaggattc tcgccagtgg tgtgcatgtt gatgttgga 240
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<210> 49341
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-H5

<400> 49341

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 cagtgggacc tctacggctc tgacgcgccc tcgccctaca acccgctaca gagcaagttc 180
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<210> 49342
 <211> 172
 <212> DNA
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 <223> Clone ID: LIB3078-019-Q1-K1-H8
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<210> 49343
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-H9
 <400> 49343

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 ctgcattatg aggattgagg a 441

cttatagtgc ctgatctccc gtacgtggcc gtgcactcgc tgcggagtga agccaacaac 180
aacaacctgg agctggtgct gctgacaaca ccagccatac cagaagacag gatgaaggag 240
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<210> 49349
<211> 270
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-020-Q1-K1-A3

<400> 49349

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gaagctcttc ctggttcgcy ccaaaggcgc ttctgaggac acatcggcct tcggcgacca 240
gttgatcgag gacctcaaag cgaagtggga 270

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<211> 312
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-020-Q1-K1-A5

<400> 49350

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caccgcgtgg ccttggaagg aaaccatgcy ctacttcaac gttatgatcc ttgggccgcc 180
gcattcggcc tatgaagggtg gagtttttaa gcttgaactc tttttacctg aggaatatcc 240
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tggtaggata tg 312

<210> 49351
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-A6

<400> 49351

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actggatcct catatataca gcatattctg agcttctgcc tattctagct gctggggcaa 180
cacctttgtt caaagtaaag cagatatccc aagaaattga ctccaaaatc atgacgatag 240
tcaatgcttc gacccttacg actccattcg cttcattttc attcagcgca accgcctctt 300
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gcctggggcc agtccagcag gcactgaatc cattgcagc 459

<210> 49352
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-A7

<400> 49352

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caatcctttt atgatgggca gagatctgat acaatggttg gtctacaaaa gcagtccatc 120
aaggagtcta ggtagcaacc taatactgaa cgaactgaaa ctatatacga taattataat 180
ctttctcgga cattagaagg tcttgaacaa agtgtacatg aagacattat tgtgctatcc 240
aaggaactac acgaggctga ggatgctgaa aattctagac acatggagag attgaaggat 300
ataaatacac agtaccagga gatactatta acacttagag ctcggctagc gaactataca 360
gatgagttgc tgctcaagga atctctagca cgccagcagc aataccagca cgccatcatg 420
agccattatg 430

<210> 49353

<211> 142
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-F3

<400> 49353

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 gtgttggggg ggaccatgac caccgacgac tcgtacaccg gcgaccagat gctgctggac 120
 gcgtaccacc gcgacctctg gc 142

<210> 49354
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-F4

<400> 49354

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 tccacctcc ccagcggggt cagctgcgcg gccaacgtta gcaaggacct catctccaac 180
 ctcaactacc cgtcgatcgc cgtgacgggg ctctctcgga ataatcggc tgcggcgggc 240
 ctaagccgga ccgtgacctg caccgtcacc aacgtggggg cgcaagaggc ggactcctac 300
 acggtcgcgg tcagcgcgcc cgccggcctg gacgtgaagg tcacgcccag taagctcgag 360
 ttcaccagag gcgtcaagaa gctggacttc caggtgagct tctaccgttg cgggaacgac 420
 ga 422

<210> 49355
 <211> 147
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-F5

<400> 49355

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 cggtgcatgg atgcccctgg tgacattatt agaactctga tgcattggctg acttgaagaa 120

cgaatacgct tgacaccatc agaagtc

147

<210> 49356
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-F7

<400> 49356

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gagtatttct tggaatgcct attgttccag cagtaactga gcttattgct gctcaatttc 120
tatggctaga ctatgacgac cgcacaaaac ccatttatct gtatataaac tccactggaa 180
ctatggacga aaataacgag cttgttgcct ctgaaactga tgcttatgca attgctgatt 240
ttatcaatcg aagtaaattc aagggtttaca caatcaatct tagcatggca tatggtcagg 300
ctgcgatgct tctttccctt ggtgtcaagg gcaaaagagg agtgctgccg aattcaatca 360
ctaaattgca cctgcctaag gtgcacaaat ct 392

<210> 49357
<211> 199
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G1

<400> 49357

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agagcaggaa cctggatagg aatggcatga tcacctgcat gaggttccac cgtactggct 120
gctcaagaac ccgagcgtca tctggttccg gatcatcagc tggctggcga cggacagatt 180
cataatcatc aaccgttac 199

<210> 49358
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G10

<400> 49358

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catagctgca ccttgctgct gaacaccatg attcacacta ccatgtcata cactttcggg 120
ggatcaactg aatccctcca gtactgctac tggctgatct actactacgc gcgatccgac 180
atatctacct ccatgcatac atgcctcttg attgagtaca tcgtctggct ctgctatgca 240
ttctgattaa tgctagagat a 261

<210> 49359
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-019-Q1-K1-G5

<400> 49359

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gtgttgacct cactgtcaga atcgagaagg gggcctccta tgaggaaatt aagaaagcta 120
ttaaggctgc ttctgagggc cactcaagg gtattatggg ctacgtggag gaggatctgg 180
ttccaccga cttcacgggt gacagcaggt cgagcatctt cgacgccaag gccgggattg 240
ccctgaacga ccacttcate aagctcgtct cgtggtacga caacgagtgg ggctacagca 300
accgctcgt cgacctgac cgccacatgt tcaagacca gtaggctagt agagagatag 360
atttctgcct ccctatcgag ggtcgtccca atggcctntg gtcgcaaacc aactttgctg 420
cttgtctatg ctg 433

<210> 49360
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G6

<400> 49360

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aggggttacc gtcaatgtca caccggacta ggctgcctgc tataacctaa ttgacatgct 120
ttggacttct gcttgtgcat tctactcat ggctgttctg ggctacatgg accagaatct 180
ggcttcacc ggctatcct tgaccattgc gcctatcata tcagtctcct acgtccttat 240

taccgttacc gactagtcta tcaacctcat ctacaatatg tacaacgcgc agagttactg 300
 caccctcttt gtcgacctaa tcctctacat gtttgagacc gactgggcta ctagaggcat 360
 cgattt 366

<210> 49361
 <211> 152
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G7

<400> 49361

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 gcgctacgtc gagttctgca agtatttcaa cacagtgatg cccggtcagg attttgacac 120
 tccatctact acagagattc agaaattctt tg 152

<210> 49362
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-F2

<400> 49362

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 gggcagaggt ggttcgccta cgtcaactcc acagaagacc acgtccaggc cagatgatcg 120
 acgcgcccgc cccgctcctg ctgccgctga tgcattgctg tacacggaga tcacatgcat 180
 acatatatac acgttccgctc tcagttgata ttaattacct gtgcattggt gctgttcggt 240
 attgatgttg ctattagctg cggtcccaa gatagaagac gctggcaggg catccaacac 300
 actgtatgta tgtagtgggt tgcgctggcc ccggttcagt acgtgtactc tcgatcaa 358

<210> 49363
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G9

<400> 49363

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<223> Clone ID: LIB3078-019-Q1-K1-D8

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ccgtggacgc	gtccctcatc	gccggcttcg	tcgtctgcta	cggcaccgac	gactcgcacg	180
tcatcgacct	cagcgtcagg	ggccagctcg	cggcgtcaa	gagccgcgtc	gactccatcg	240
accagaccgc	gcatgcccac	ggacaccac	accaccactg	accgtcgatc	caacacctga	300
ggcaccggag	caaagcacag	cgcgccgtca	ccgtgctaca	gcttacaata	caagcctata	360
ctgtacacgc	acagaatgac	agaacagaac	cgaacgcgcg	ccatggcaac	aacagttttc	420
cta						423

<223> Clone ID: LIB3078-019-Q1-K1-E1

gtggcgggccc cgaaggcgga agaaggaggc gggctcatga agacgctgtg gctcggctcg 60
ctgttcggcc tctggtacct gttcaacatc tacttcaaca tctataacaa gcaggtactc 120
aagggttttcc cataccctat aaacatcaca gaagttcaat ttgctgtccg aact 174

21149

<223> Clone ID: LIB3078-019-Q1-K1-E10

<400> 49368

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 gtagaggcaa tcaacatcga aggtctcgcg ttggacaagt ttcttgagta ccatgccgcg 120
 aactcaggtt ggggtgattga gaatgggtggg cagtctcaag tgattgttct tccgcgtaat 180
 gagttcaatc acccagagct caagacaaca cagccgatat cttttccgtt tgaacacgta 240
 acacgcatat tccctgtcct 260

<210> 49369

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E2

<400> 49369

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 ggcgctcggt gcttcttccc ccaaccaaag acacgaatca gccatggcgc tcgcctccgc 120
 caggtccgc cccctcctcg gtcgccccgc cggcaccgcg cggccccacc tcgccgattc 180
 ctcatcctcc cccgcctcct cgatccgctt cccccgcggc gccgacggcg gcgccagcag 240
 agcggccgct tatctccgcg cccccacgcc tccagcggcg gcaacagcaa catctggtag 300
 cattgctcca gcaatttcat tgactgaaaa ggccttgaaa catctgaacc aaatgagagc 360
 tgaacggaat gaaagtttgt gcttgagaat tggagtgaag caggggtggat gctcaggcat 420
 gtcttacacc atggaatttg aaa 443

<210> 49370

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E3

<400> 49370

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 agtggcctga acgaccactt catcaagctc gtctcgtggg acgacaacga gtggggctac 120

agcaaccgcg tcgttgacct gatccgccac atgttcaaga cccagtaggc tagtagagag 180
 atagatttct gcctccctat cgaggggtcgt cccaatggcc tttggctcgca gaccaacttt 240
 gctgcttgct tatgctgaga ataaatgtga acgggtgcccc tggacgctgg atccatgctg 300
 gttttggaca cggttgctctt tttgtgtttt aacttatatg ctgtcgtcct gtaacgaatt 360
 cgcaagtitt aggtcttttg cgctatgata agaatgaaca atgaggggttc agctttgggtg 420
 gcgc 424

<210> 49371
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-E4
 <400> 49371

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 ggtcatatgc tcgaaaacac cttgctccct ggggctctgt acacatgaaa gaattgcagc 120
 gtgtcacagc aacattgggtt tttagaagca atactaattg tactccatac aagatattgt 180
 ttgagcaaga ccgctgggac tatcttggtt acattttcaa gcaagatttt agcaagttat 240
 atggcatgac actagaaccg ctgctgaaca tatactctgca agcaggcctg acagctctca 300
 aaaccccgat ctgctctgag ggtagctgtg cctaagaaga ccccttgctt ctggaggggt 360
 tcaggaaact agccgagcct ctggccttct ctaaacagca ccactcgaac cttgttgggt 420
 catcac 426

<210> 49372
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-E5
 <400> 49372

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 gtacacttcg ttttcgtctg ctccctcgtc caagtatatc aacgtagcaa ggtgggttaa 120
 tcacattgat gcgctcgtga ggctgagcgg aattactgca gagggccaag gtgtgaaggt 180

tgaatcgtea gcagttcctt cagccccaac tccagatggt gctgaagcac aggccccagt 240
 tgctgaggag gacgacgacg atgatgttga ccttttttggg gaggagaccg aagatgagaa 300
 gaaggctgct gaagagcgtg ctgcagctgc caaggcttct ggcaagaaga aagaatctgg 360
 gaagtcatca gttttacttg atgtgaagcc atgggacgat gagactgaca tggccaagct 420
 cgaggaagct gtt 433

<210> 49373
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E6

<400> 49373

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 gtgcacttga gagacagctg ctccctcagc caagtatata aacctaccac ggcggttaaa 120
 tcacattcat gccctcgtga ggctgaccgg aattactgca catgcccaat gtgtgaaggt 180
 cgaatcgtea gcaggtcctt cagccccaac tgcagatggt gctgaagcac atgccccaga 240
 tgctcaggac gacgactact atgatgttga ccttttttggg gaggagaccg tatatcaaaa 300
 gaatgctgct taatagcgtg ctgtagctga caaggcttct ggcaagaaga aagaatctgg 360
 gaagtcatca gttctacttg atgtgaatcc atgggacgat gagactgaca tggccaaact 420
 t 421

<210> 49374
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E7

<400> 49374

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 gcgcatgact ccaacacccat cgctgactca agttactgac caacttctgt ggatgcaagt 180
 cgactgagct tcacctcatt tactattacc ttcagtctgc caagaagatc aagcccaaat 240

atcctgatga tcacgaatgg tattgctacg aacgttgaga agatccgaac gcatatgata 300
gtacggatga tcaagaccaa gatgatcctt ggagtgatta tgaccaa 347

<210> 49375
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-E8

<400> 49375

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gccctgctcg tggacttctt cgacaagtgc caggcggacc cgagccactg gagcaagatc 180
tcccagggcg ggctccagcg tatcgaggag aagtacacct ggaagctcta ctcgagagag 240
ctgatgaccc taaccggcgt gtacgggttc tggaagtacg tgtccgacct gtataggcac 300
gagaccggcg ggtacctgta gatgctcgac gcgctcaagt tccgcacat gccgagcacc 360
gagccgatgg ccgtggaggg agagcc 386

<210> 49376
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-F1

<400> 49376

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gagtgcgccc ccatgagctt catcgtcgag caggccggtg gcaagggctc tgacggccac 120
cagagaattc ttgacatcac acctacagag atccacaaa gagtgcctct gtacattggg 180
agcgtggagg aagtggacaa ggtggagaaa ttcctggctt gaatgtccct gcttcatgcc 240
agagctctct catcagatgg actccccaag acatcaagtt tagggagga atatgtactc 300
tctctttccc acccatata agtcttcttc gtctcatatt tcgataaatc aaacaatctt 360
aattttgacc taatatatac acacaacatt aatatttata gtattagaat aaaatattac 420
tagattgac atatacata 438

agacaaaacc tgccgtatct gggacacccg caacttgctg acctcgcttg cggatttgcg 360
gggcaaca 368

<210> 49382
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-C6

<400> 49382

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gctacggtta tgattatggc tatgccccca gaggcgggta ctatgaagag caagacgaat 180
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actactacta ggcgcgagaa atgcgacgtg ccgaatgcgt gtgcttatta agtatctgtt 360
agcgtttgct gcagtgtctt tctatggagc tccgaccccg gactggaat 409

<210> 49383
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-C8

<400> 49383

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caagtcgaac cagtacgaga ccacgtctct cgtgcagatc gaggggggtga acaccaagga 120
ggatgtcgcg tggtagctg gcaagcgcgt ggcgtacatc tacaaggcca agaccaagag 180
caatgagacc cgctacaggt gcatctgggg taaggtcacc cgtccgcacg gaaactcggg 240
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agtgttcatt taccgagca gcatctaaag ttttggtgga gtaaagatgg actagaaatg 360
gccatgtgtt tattttctcac ttttctctga acttaaaatg ctttgtgttg gtaacttaga 420
ttgttcaagt gctgaacc 438

<210> 49384
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-C9

 <400> 49384

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 attgtgcctc acctagctga ggatgtctgg cagaacctac cttttcaata caccttgcag 120
 gatggatccc ttgcaaaactt tgtttttgat ctgaaatggc cagaaaagaa tgaagaatgg 180
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 aaggtttatc tccataccga aagttcagat acggtattaa agctaaagga gctatcttct 360
 gcatccaatg atgcagacgc tctgcacgc ctgtttatca catctcaggt cgatattctt 420
 ccaatcctaa atgaagagat tacatcat 448

<210> 49385
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-019-Q1-K1-D1

 <400> 49385

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 atcgttgccc gcgccgcgat cgccaggccc aatgctctag ggctgcctgc gctgagggcg 180
 aggagcgaga ggggtgcggtg cagctacgcc aaggacgcgg tcccagtcag caccaagggc 240
 gcatgcgcgt cgtgctcgc cgcagcgggc gcggtgaccg cgtcggcggt gcccgcgctg 300
 gcgctcgtgg acgagcgcgt gttcacggag ggcaccgggc tgagcctcgg gctcagcaac 360
 aacctgctgg ggtggatcct nctgggggtc ttcggcctca tctgggtcct ctacaccatc 420
 taca 424

<210> 49386
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-D12

<400> 49386

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 ttgctcctga gcctcaacat cctcttcggc gttgccaagg ttggctacat cctcatcgtc 180
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<210> 49387
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-019-Q1-K1-D2

<400> 49387

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 aanggggtaa tgacgaagta tcggttcaag agatcagtga agcccagccc ttgccttgaa 180
 gacggcgctc ctttccctta aagctccgct ttcttctccc gcacctggcg atcttcacga 240
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 actataatat cacaagcgaa gctacaattg ggtgtgagct atattggcat atccttcctt 360
 ttgttgtatt cccttgaaca atgaatcata acaactgttt accatttttc taaaggatcg 420
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<210> 49388
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-D3

<400> 49388

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agcagcgcg cgtatcgccac tatcaagggtg gtgcgcgcgc tcaccagcct cgcgctcaag 180
gaggccaagg accttatcga ggggtctcccc aagaagggtca aagaggccgt cagcaaggac 240
gaggccgagg acgccaagaa gcagctcgag gaggtcggcg ccaagggtgc tatcgcgatga 300
cactaggtat acgagtactc cttttttttt tttagtttct tttggttgca tccccaatct 360
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tgtcgattca ctagcttg 438

<210> 49389
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-D5
<400> 49389

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ggagccggcc atcgtccgcc tcacaaggcc caccgcccc gacaaggccc gccgcctcgg 120
cttcaaggcc aagcaggggt atgttggtta ccgcgtccgt gtgaggcgtg gtggcaggaa 180
gaggcctgtg ccgaagggtta ttgtctatgg caagcccaag caccagggtta tcaccagct 240
caagttccag aggaacaaga gatctgttgc tgaggaacgg gctggacgaa agcttggtgg 300
actcagggtt ctcaactcct actgggtgaa tgaggatagc acctacaagt actttgagat 360
catcctggtt gatgtggccc aactgccat ccgcaacgac ccaagaatca actggctatg 420
caatcctgtg caca 434

<210> 49390
<211> 427
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-B8
<400> 49390

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gggcgacggc gacggcgccc acattcgctc tgcgcatcgctc cttctcgcgc ggcggcttcc 120
 ttccgctccc tgcgcacgcc ggccggccca tgccttcagtc tctgcgactc gtcgcgtcag 180
 ccgtgaagcg gcggcgcggc gcggtcgtgg tggcagcgga cgcggcgggc gcggccggga 240
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 gcttcgatca catgaaaatg gcctacaaga agaagcgcaa ggacgccgaa gagactggag 360
 acgacgagtt ccttgccaag ttggacaggg cctatgacac tgtcatgatg cagcagctgc 420
 agtatcg 427

<210> 49391
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-D6

<400> 49391

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 agctacgcga aggacaagct gggcaacgac atcacggtgg aggcgtggct caacacgcac 120
 ggtcccaacg accgcacgct cgcgcagggg ctcaagggtg accccacgta cctggtggtg 180
 gagcaggaca agacgctggc cacctacggg atcaacgccg tgtgcactca cctcggctgc 240
 gtcgtgccgt ggaacggcgc tgagaacaag ttcattctgcc cctgccacgg atcccagtac 300
 aacaaccagg gcaaggtggt ccgtggaccg gcgcctctgt cgctggccct gggttcacgcc 360
 gacgtcgacg acggcaaggt cctcttcgct ccgtgcgtgg agaccgactt caggaccggc 420
 gaggacccaa tgggtggagg 439

<210> 49392
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A10

<400> 49392

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 cgagtgcctg gagtgggtccc gcgcgcggct ctcttccttg ctcgcggggc tcaccatcct 120

cgacggcgag ggcggcctca gtctccgcac cgtcgcgctc gacaagcttg atggcgaggc 180
ctacgtcaac atccgcaagg gcaagggtcat cccgggggtac gagctctcgc tcaccctctc 240
ctgggaggcc gagggccgct cggagtccgg agctgcg 277

<210> 49393
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-019-Q1-K1-A11

<400> 49393

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accgggcggt cgtcggccgt ggcggtgtct cggaagccga tcccgtgga acagcgcgtt 120
cgggagaagt ctctgaagcg cgcgtaccag gcccgcaagg cggagctcaa ggaggagatc 180
cggcagaaca aggttgcgaa gcggaaggcc cgcgaggagc gggagaagcg gaagcaggag 240
aacgtgctcc gcacgggcac caagctgcag cgggtcacca acccgaagac gatccagaag 300
atcgccaagt ccaagaagcg cangcagctc aaggctgtcc cctacgagtt cttcggcggc 360
nagaggtcgg aggccatccg gcgcatgcag gtgcctggac ttgagaattg aatctcaatt 420
ctcaatctct ggttctgggg t 441

<210> 49394
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A12

<400> 49394

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acggactacg gtgctacgcc gcgcccagat ccgcggtggc agcgtgccg tccgtgaagg 180
tcggcaagaa gaggtcgtcg tcgcaaggca tccgtgcga ctacatcgc tccgccacca 240
acctgatcat ggtgacgacg acgacgctga tgct 274

<210> 49395
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A2

<400> 49395

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caggagggttc gtggagatcg ggcgcgtggc cctgggtgaac tacgggtgagg actatggccg 120
tctcgttgtc atcgtcgatg tggtcgacca gaacagggca cttgtggatg cccctgatat 180
ggtcagggtgc cagggtgaact tcaagcggct ctacttact gacatcaaga ttgacatcaa 240
acgtgtcctc aagaagacag ccctgatcaa ggcgatggaa gaagctgatg tgaagaccaa 300
gtggggagaac agtcatggg gcaagaagct tattgtccag aagaggatag catcggtcaa 360
tgactttgat aggttcaaag tcatgctggc gaagatttag aaggg 405

<210> 49396
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A5

<400> 49396

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tggtggccaa gtacggcgac aagagcgtct actttgacct cgacgacatc ggcaacacca 120
ccggacagtg ggacctctac ggctctgacg cgccctcgcc ctacaaccg ctacagagca 180
agttcttcga gacgttcgcg gctccgttca ccaagagagg tctgctgctc aagttcctgc 240
tgctgggcgg cggctcactt ctggcctacg tcagcgcgtc ggcgtcaccg gacctcctgc 300
cgatcaagaa gggacctcag gagccgccgc agccggggccc gcgcggcaag atctaagctc 360
agcttctcca tttgcatggc ctagtagctt gctttgtact gctagcgccg gtcgatccgt 420
cgcaatcgtc atgga 435

<210> 49397
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A6

<400> 49397

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tgatcacgtg gacgtcccc aaggagcagg tgttcgagat gccaccggc ggcgccgcca 120
tcatgcggga gggccccaac ctcttgaagc tggcgcgcaa ggagcagtgc ctggcgctcg 180
gcaccaggtt gcgctccaag tacaagatca cctaccagtt ctaccgcgtc ttccccaacg 240
gcgaggtgca gtacctacac cccaaggacg gcgtctaccc ggagaaggtc aaccccgga 300
gggagggcgt cggccagaac ttccgcagca tcggcaagaa cgtcaacccc atcgacgtca 360
agttcaccgg caaggccacc ttcgactaat cacatttcac gtacgccgca cgccccagcc 420
gggatccaaa.ttaaag 436

<210> 49398

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A7

<400> 49398

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cgatgctgta gtcgaggggtg aagtggctgt cgagaagatc aaggagagcg attgccagcg 120
tggctacaat gcaatgactg acatgtacga taacctgatg gaggctgggtg tgatcgaccc 180
tgccaagggtg accagctgtg cgctgcacaa tgcggactca ttccctggaa tggtcctaac 240
cacgcaggcc atcgttgatg agaagcccaa gccgtagcct caagtggcag agccaccgga 300
gggagccctt accgtttaat acttaacgtt cttgaggctg gtgtacagac tggtcagatc 360
tgtttagcagg gt 372

<210> 49399

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-B4

<400> 49399

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gcttcgcgag ggcaccgttc ccctgcgcgc tcgctggacg ccgtcgcaca tgctccctgc 120
tcggcctccc cggcgtgctg ctccctcgcc ttgggtgcccc tgcgagctcc 170

<210> 49400
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-B5

<400> 49400

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gcaaaagggg cgccactcag gatatggtaa gcgtaggggt accagggagg ctaggctacc 120
caccaagggt ctgtggatga ggaggatgcg tgtgctgagg cgccttctcc gcaagtatcg 180
tgaggccaag aagattgaca agcacatgta tcatgacatg tacatgaagg tcaaaggtaa 240
cgccttcaag aacaagaggg tgcttatgga gagtatccac aagtccaagg ctgagaaggc 300
cagagagaag acactttctg accagtttga ggccaagcgc gccaagagca aggcgagccg 360
tgagaggaag atcgctagga gggaggagag gttggcccat ggtccacgag aaataacacc 420
acctgtctca tccaca 436

<210> 49401
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-B7

<400> 49401

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ggagcagggg tgtcatgtat aataacatat acaccttcaa ctgctagcca agatttcaag 120
gatgcaattg ctacctatcc tgaccttaat aatgtcaggc ttgaggacct caagctatta 180
ctccagaaaa ctcttgttac tggatagcaa agtgtcttgt tttcccccaa agaatacatt 240
gaaaattttc ttgatgcatg ataatccacg ctattattcc ctggacgttg aacagttggg 300
gctgggtggt gaacagtaga tgaatccaaa catacatctt gttgaacaat tgggtgctgga 360

tggtggaaga catgattact cagatagata attaatgcaa ctagaaagat agatagttac 420
gattgttaaa acttt 435

<210> 49402
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A1

<400> 49402

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aagaagaggg gctatgaggt tctgtacatg gttgatgcca ttgacgagta tgctgttggg 180
cagctcaagg agtttgaggg caagaagctt gtctctgcca ccaaggaggg tctgaagcct 240
gatgagactg aggacgagaa gaagaggaag gaagagctga aggagaagtt tgaggggctt 300
tgcaaggtca tc 312

<210> 49403
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-A10

<400> 49403

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gcacgctgcc cggcgactat ggggtcnacc cgctgggcct ctccgacccg gaggggagcg 120
gtggcttcac ggaggccaag tggctggcct atggcgaggt gatcaacggc cgctacgcca 180
tgctgggcgc ggtgggcgcc atcgccccgg agatcttcgg caagatgggc atcatcccc 240
cggagaccgc gctgccgtgg ttcaagacgg gcgtcatccc gcccgcgggc acctacaact 300
actgggccga ctctacacg ctcttcgtct tcaacatggc gctcatgggc ttcgccgagc 360
acc 363

<210> 49404

<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-A12

<400> 49404

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ctcgcgcttc aaggagttca cgcccatggc gagcaccaag attgcttcaa acagctggcg 120
ggtcattgctt gccgcgggcg ttcccactgc caatagctgc agctgccgtg tcaacttcgc 180
ctcagcgccc aaccggcttt gcaagaatct tgtggtcgg gccca 225

<210> 49405
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-A4

<400> 49405

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ccaggcntgc gccacgcgt ccggtaattt catgatgggtg tgggtggaacc gtgggcgctt 120
ggaacatcaa tacagtacaa gagattgctt gttggaacag tcacattggt ccgattacag 180
cattgaagtg ggcccctcgt cgagcgatgt ttgcaactgc atcaactgcc ctaactttct 240
ggattcccaa ccaatcgaat taggatcagg tgcttgaga aagaagggat gtgacttcatt 300
gtatgttaac gtagcaaatg ttcatatctt gttcttttgt ccaaaagata gatgccatgt 360
atgaaatcac ttcattacca tctgcggaaa cattgacatg tttccaggca gatacttgct 420
gtagtgtcc cttatttata tgtactgtac taatacacct ggctgt 467

<210> 49406
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-A8

<400> 49406

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gaccttcgcg aagaaccgcg agctggaggt gatccagcgg ccggtgggce atgctcggcg 120
 cgctcgggtg cgtgttcccg gagctgctcg cccgcaacgg cgtcaagttc ggcgaggcgg 180
 tgtggttcaa ggcgggctcc cagatcttca gcgagggcgg gctggactac ctcggaacc 240
 cgagcctggt ccacgcgcac agcatcctgg ccatctgggc gttccagggtg gtgctcatgg 300
 gcgccgtcga ggggtaccgc gt 322

<210> 49407
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-A9

<400> 49407

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 tcaggagtga agtgccctct tctctggaag gagtttgtca ttgacaagtg gcaaattctat 120
 aatgctcgtc ctaaggggtgc tgatgcaatt ctactaattg ctgctgtgct accagatctt 180
 gacataagga aattttcttca gattttgcga gagttgggaa tgacagctct tattgaggtt 240
 catgatgaaa gagagatgga acgtgtgctg aagataaatg gagttaagct tattggtatc 300
 aataaccgaa gccttgagac atttgttgtt gataacttca acaccaagat gttgctcgag 360
 aaacatgggg atatcatcag ggagaaggga attttggttt gtggtgaatc aagtctgttt 420
 actccggatg atgttgctta t 441

<210> 49408
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-B1

<400> 49408

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 atccggtgca tgccaggtgtg gccggcctac ggcaacaaga agttcgagac gctgtcgtac 180

ctgccgccgc tgtcgacgga cgacctgctg aagcaggtgg actacctgct gcgcaacggc 240
 tggataccct gcctcgagtt cagcaagctc gggttcgtgt accgcgagaa ctccacctnc 300
 ccggtgtact acgacggccg ctactggacc atgtggaagc tgcccatgtt cggctgcacc 360
 gacgccacgc aagtgtacaa ggagc 385

<210> 49409
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-001-Q1-K1-B5
 <400> 49409

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 cgctggcctg gacgcccggc tcctaccgcg ggcgctcggc ggagcgctgc cgcacggcct 120
 ctgcgccggc tccgtcgctg gtcacgtcg cccaggggaa ggtcaagaag taccgccagg 180
 tcatattgac agacgacata gaagaggtgg ggaagaaagg ggatacactg aaggtgcgag 240
 ctggattcta ccgcaacttc ctcttccca agggcaaggc tacacttctg accccagaag 300
 tcctcaagga aatgcagctg gagcaggaga gaatagaagc tgaaaagaag cgggtaaaag 360
 aagacgcgca acaacttgct cgagtttttg aaaccattgg cgctttcaaa ctccctcgca 420
 aaggtggaaa a 431

<210> 49410
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-B8
 <400> 49410

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 ggcgaggagg cagagcttcg acgcgccgag ctcgagctg gcgttccagc tggcgttcgc 180
 gccgcacctc aaggacgtgc ggcccagca ggcccgcgtc gcggagaacg agaagaagct 240
 gcacagcatg ctgggcgtct acgacgacat cctctccaag aacgagtacc tcgccggcga 300

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347

<210> 49411
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-C1

<400> 49411

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ctctaattgg tggcattcca cctgcatagg tctttgaaaa tccgaagcta atgcactatg 120
tatatattga taccattgca aaagttggat tgacaaagta tgtcagcgac ctattcttga 180
ttggactgat ctaccatctg tataaccaga ttgctacaaa caccttaca cgagtgtctc 240
ctcttacaca tgctgaccgc aatgcgatta aacgcgttta taccatctgt ttctcaatca 300
ttgatactgg caacagaatt agcacacaaa ctggaattgg cacg 344

<210> 49412
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-C11

<400> 49412

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aagatcgttc ctgaaatata aagtgatggg caggtaaagg ttgatatggg cgagcctatc 180
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gctgaattgg cagttgaggg cttaacatgg catgtcacat gtgttagcat gggaaaccct 300
cactgtgtca catttggtgc aaatgagtta aaggtattgc aggtcgacga tttaaaactt 360
agcgaaattg ggccataaatt tgagcatcat gaaatgtttc ctgctcgcac atacacagaa 420
t 421

<210> 49413
<211> 468

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-C12

 <400> 49413

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 tgctgcggta gtttctcggg ggcaaacctt ccacgcggca tggcatggta ttgttgatgt 180
 acgattcatt cgttggaaaa cctggacgtg agtgctggaa ttgcaccatc tggccttttc 240
 tgtacatgcc tgatgtaaac ggtggtgttg tgtttcccca ccaccaacct ctcttttcac 300
 gatgatgacg cagtgcattg ataattgtat gggtaaatga cgcagtgcatt gccttgcgga 360
 gtgggccggt agacaaacat ttcggcgggt ggtcacttgg tcagtgacct gttgatatta 420
 tnatnataat tggatctaata gcaacaacca gttctggtgt tgggtgtcc 468

<210> 49414
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-C2

 <400> 49414

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 gccgccggcg aggccgacgc cgacgcgggc ccggacgccg aggtacgggc ccccgacgcc 120
 gacgccgacg cccgtgccgg agcccaggcc tccggcgccc gaggagcccg agccgttctt 180
 caagaagaag ccgaagctca agttcatgca caagaagaag ccgtgcccgc cgctcgctga 240
 cgacgacacg acccggcggc ctgcggcagc aggcgggcag gggcaagaga aggttcccat 300
 gaaactgaac taggggatcg gagctggctc gttcggngac agcagcagag ctctaagatg 360
 ttgcagtgtc agtgacgacg ttcgtttcgg ttcggttccc gtgatgacgt tgatgt 416

<210> 49415
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-C3

<400> 49415

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 tgcacatgct tccccacatc aaactgecta atgatacgta tcgccagctt ccgatattct 180
 tctggaattg agcatccatt ccatgaccgc cctcttgaag ctcttgcat gccaccacgc 240
 taactacggg agattccacc cattacaagg cagcgaatgt taaggcccca catagaacat 300
 cattcaaaca acgccaacga ggaataacat gctaacaatg ccacagctga cgtcactgca 360
 taggctcctc atgtcaatat catgat 386

<210> 49416

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-C4

<400> 49416

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 gagacggccg tgcacatcgt gtacgttgac cgccccgagg acgccgaccc tgaggagtgc 180
 cacatccgca cctcacccc cgtctctggc agcgaacaga aggccaggga cgcagtgtc 240
 taccactaca agaacgccgn cagcggcttc tccgcgaagc tcacccccca gcaggtcaag 300
 gatctcaagg agcaaccagg tgttctccag gttgtgccga gccagactta ccagctacat 360
 ggtcctgggt ctggcac 377

<210> 49417

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-D1

<400> 49417

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 ttactatgta cgagatacaa tgagtgaaac atgaaaagca cgttctccgt gggaattcgg 180
 atatggttga acttccactt aaatcaaag 209

<210> 49418
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-001-Q1-K1-D11
 <400> 49418

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 gttgccctgt cactgagata tgagatcaac agggggggtt ctaccttaag ggagattggg 120
 catggccgtg atctgaagaa attcctaatt gttattgcag gtctctggct tctttcagtt 180
 ctcgggagct gctgcaactt cctgacactg ttctatatg tctttgtggc actgtacact 240
 gtaccagttc tgtatgagaa atatgaggac aagggtgatg cttttggtga gaaagctatg 300
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<210> 49419
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-001-Q1-K1-D2
 <400> 49419

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 cggcggtggc gggcgccgtg atggcggttg cggctacggc ggtggcggcg gctacggttg 180
 cggcggcggc tatggtggtg gtggcggcgg ctacggcggt ggcaaccgtg gcggcggtta 240
 cggcaactcc gacgggaact ggaggaactg agcgggtggg cccgcgcggc caagttatcc 300
 tgttcgctac cgtgatgttt accctagtc agagggttta tcttcgttcg tgtcg 355

<210> 49420

<211> 352
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-D3

 <400> 49420

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 tattatang gtcgagccgc cgccattggt gtcgatgaca tcgcagggtcc ggcctccttc 120
 acccgtgcc aaaaatgggt tcaagaactt caagctcaag gaaatccgaa tacaatagtg 180
 gctcttgctg gtaacaaggt tgatatgcta gatgcgaggc acgtggcagt agaggaagca 240
 aagacgtatg cccaggagaa cgggtctcttc ttcattggaga catctgctaa aactgcaatc 300
 aatgtgaatg acatatatta tgagattgca aagagattgc ttcaagggca ag 352

<210> 49421
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-D4

 <400> 49421

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 cgcaagaac cgcgagctgg aggtgatcca ctcccgggtg ggcatgctcg gcgcgctcgg 120
 ctgcgtcttc cccgagctgc tctcccga cggcgtcaag ttcggcgagg ccgtctgggt 180
 caaggccg cccagatct tcagcgagg cgggctggac tacctcggca accccagcct 240
 gatccacgc cagagcatcc tcgccatctg ggctgccag gtcgtgctca tgggtgccgt 300
 cgagggtac cgca 314

<210> 49422
 <211> 500
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-D5

 <400> 49422

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 gcaggaggtg ctcatcatct ggggagagtt cgaccagagg ttggcggtgg acaaagggca 120
 caaggtgaaa gagaagctcg gggagaaggc gacggtgaag gtgatcccca acgcggggca 180
 cctgccgcag caggaggaca gcaagctctt caaccgagtc ctctcgact tcttgcgtcg 240
 cccttcgtcc accgccgcct gacctccaac ggcagcgccc aagccaaaca gcttagcttg 300
 ctcggtgcc ttcttctttg gttatccatt atcatcctgc cgcgcgcgtt tccggcgttc 360
 ttgtttgttt gtagagtga cgaggcgctg ccgncttctg tttttgtttg aggggtggcaa 420
 tgtgcagatc cctacctgtt tgttgtgctg tgaaaaaaaa gttgcttgtg gctgtggaaa 480
 aagatttatc attaatatat 500

<210> 49423
 <211> 482
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-D8
 <400> 49423

accggtcttg aattccgggg tggaccgacg cgtacgagca cttccttgat cacttccaga 60
 aagagcatga ctgccacgac ttttttgacc acgtccagaa gaagcctgtg cgaccgaagc 120
 ctaagccgga gccaagcca gagcccaaac cacaacctga gcctgagtac ccccccccta 180
 caccgacctt tggatcaccg actcctatct accaccctcc ggccaagcat tgatcgatgg 240
 agttgaatgg tggtcagtga tcgacgtcgc tagctaagag ttgcatgtgt ggtctagcta 300
 gcgtgggttg cagtcgccgc tttttgtttc tacagaataa attatagctt tatttgggta 360
 tgtatactta tttgtgtatc ggtagtatc atataaatgt atgatttgag tgtgccgtag 420
 ttttaatatg catgttctat gatgtacttt attcctttta aaatattatt atttatatgt 480
 ag 482

<210> 49424
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-E2

<400> 49424
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 gaaggtggcg gcggcggcta cggagggcggg ggccgacn ggggtcggcg cgaggggtggc 120
 ggtggcggct acggcggcgg tggcggcggc ggctggaggg actgatgtgt gggcccatcc 180
 tggcttcggc cgagttatct tatctatcta tagtatcgtg ttaccgttcg cttctgtcac 240
 cgtgttagtg tccgttctac ctttgatta ngtgttgga ccctgttggt cgctttgggt 300
 gctcccgcta tgaaacgaga cgagagaaga atgagcaggg ttttgttcgc agctatTTTT 360
 gtccaatgat attgatatat tgggtcc 386

<210> 49425
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-E3

<400> 49425
 acccgccgg aattccccggg tcgaccgacg cgtgcgctat gatgttaatt ctatgaaatc 60
 gtttgataat cttcacagct ggcgtaaga gtttctagtt caggcgagcc cgtcagatcc 120
 tgacaatttc ccttttgttc tggtgggtaa caaagttgat gtagatgggt ggaacagccg 180
 tgtggtgtcg gagaaaaagg caaaggcatg gtgcgcctct aaagggaaca tcccgtaact 240
 tgagacgtct gctaaggatg gaacgaacgt ggaagatgcc ttccagtgtg ttgtaaagaa 300
 tgctctgaag aatgaaccgg aggaagaatt gtatgtgcca gataccgtgg atgtggtang 360
 tggcaaccgg gtcagagat catctggctt 390

<210> 49426
 <211> 82
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-001-Q1-K1-E4

<400> 49426
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tgctgccgct gctctccagt ct

82

<210> 49427
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-E5

<400> 49427

attccccggt cgaccctctc gtcctaaaaa aaaaaaaaaa aaaaaaaaag aattagatta 60
aaaaaaaaag aaaaaaaaaa aaaatgtaag tttaaaatca gaagaggtag ccaccttaca 120
tactcttaca tccaaacttc ataactctta tataaccacca cttaaatacca atttacttcc 180
ccccatttta caacatcttt tctttcaaaa cctaccatt cccccctaa atcttctttt 240
atcccatcct aattt 255

<210> 49428
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-E8

<400> 49428

taccggtcct gaattccccg ggcgaccgac gcgtccgctg acgcatgggc acgtttgccg 60
gatcgtagtg cgggcccggcc gagatcatcg tgcgcnnggt gtctagcggc ggcattggacc 120
cttaccaggg ctacaaggcg tcggccctgc tcgtggactt cttcgacaag tgccaggcgg 180
accgagcca ctggagcaag atctcccatg gcgggctcca gcgtatcgag gagaagtaca 240
cctggaagct ctactcggag aggetgatga cctcaccgg cgtgtacggg ttctggaagt 300
acgtgtccaa cctggagagg cgcgagacc gacggtacct ggagatgctg tacgcgctca 360
agtaccgcac catggcgagc accgtgccgc 390

<210> 49429
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-F1

<400> 49429
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 cccacgcgtc cgccacgcg tccgaggacg cgtgggtgcg cgcgagctga ggacgggaca 120
 gcggcacaga ggtgcgacgt acgacgacga cgacgcagge gccacacatg gcatcccagc 180
 tctccgccgc cgtgccccgg ttccacggcc tccggggcta cgcgcgcgcc aggtccgcgg 240
 tggcagcgct gccgtccgtg aggggtgggca ggaagaggte gtcgtcgcag ggcattccgt 300
 gcgactacat cggctccgcc accaacctga tcatggtgac gacgacgacg ctgatgctgt 360
 tcgcggggcg gttcgggct 379

<210> 49430
 <211> 462
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-F10

<400> 49430
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 aagagaagat gcgagctgct gttggcaggt ttggcctatc gggaaaggcg cagggtgatgc 120
 caatgaggaa tctttctgat gggcaaagga gccgtgtcat ctttgcatgg ttggcatata 180
 ggcagccgca actgctactg ctcgatgagc cgacaaatca tttggacatt gagaccattg 240
 actccctggc ggaggcactg aatgagtggg atgggtggtt ggtcttggtg agccatgatt 300
 tcaggctgat caaccaagtt gctcaagaga tttgggtgtg tgagaatcan gcggtgacaa 360
 ggggtgggaag gtgatatcat ggatttcaag gcacacttga agagcaaggc tggtttatct 420
 gattagaggg gcttttncag caaccatgag ctttttaact ct 462

<210> 49431
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-001-Q1-K1-F12
 <400> 49431

accggtccgg aattcccggg tgcgacgcgc cgtccgccc cgcgccgat tgcgttctcg 60
 cgagccatcg cttctggatc cggaagaaat ggccaagggg gaagaaccac acggcgcaca 120
 accagtcggt caaggcgcac aagaacggca ttaagaaacc caagcgccac cgccagacct 180
 ccaccaaggg gatggacccc aagttcctga tgaacctgag gtattctagg aagggaaca 240
 aaaagagtgg tgaggctgaa gctgaggagt acgaaggaaa gcatggcttt gtttcctctg 300
 gttttagctc agttccacct ttatgaacct gggttttgct aaagatggaa cttaaagtgt 360
 gttactgtat gatggc 376

<210> 49432
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-F2
 <400> 49432

gaattcccgg gtcgaccgac gcgtacgcgc ccaagctcga cccgtcgcag gtgggtggagg 60
 tgttcgtccg tgtgaccggc tgctaggtgg gcgcagctc ttggctggcc cccaagatcg 120
 gcccgctcgg tctttccccc aagaagatcg gacaggacat cgccaaggag actgccaagg 180
 actggaaggg cctccacgtc accgtcaagc tcaccgtcca taaccggcag gccaaagtct 240
 ccgtcgtccc ctccgacgct gcgctcgtca tca 273

<210> 49433
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-F4
 <400> 49433

accggtccgg aattcccng ggcaccgacg cgaaanctga ctcatagcct ctctctgga 60
 ctcggcctct ggcancaagg acaggctcct ggtcngggaa cctatgctgc ggtggaagcg 120
 ggcgctcgcg ccgctgtccg tgggcccgcgt cgccacgcgc eggccgcggc acgtctgcca 180
 gtccaagaac gcagtggacg aagttgtggt ggccgacgag aagaactggg acgggttggt 240

<210> 49436
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-001-Q1-K1-G12

 <400> 49436

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 gaagaaaatc aaaggcactc gctaccagag cacgggtgtac acgatgcact atgggtgaata 120
 tgttgcgtag ctcaagaaga acagaggtgc agccccgtca attagtgggg ctctcctgt 180
 agttaatggc ttcaagccaa gccattgatt tatcagtata aaaaaaagct caaagaacat 240
 attactataa tttatctgcy agcaatttgg ggggtgtagt gtaaccaccc cccacagctc 300
 attgatctag catcattccc ttccaaggaa aaggccaaat agggggtca tgacaagcgc 360
 ccagaataat aatgccttcc tggatggatc atggatgatg cttatgtatc ttgaaaacac 420
 atgtgcttca agaagttcaa attgtgtggt gaaaa 455

<210> 49437
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-001-Q1-K1-G2

 <400> 49437

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 ttccgcgtcc gatcccgatga gaagctcaag ggccggaggc cntcggagcg gttcaggctc 120
 angtaggata ggccttctga tgtacaagga ggccccgcac ctggctcctag tgctactgct 180
 acagctccat ctccagcatc tattgcttct cgcccatatg ctttatcttt tccaccgtgt 240
 taagtcttct ggccactcac tttctgagtt atcccctgtg cgtatctgaa gtcctatat 300
 tagaggtact tattatctaa agtctcaaca 330

<210> 49438
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-G3

<400> 49438

gaattcccg gtcgaccgac gcgtgcgaga gcttggtgag ttaggaagcg cggatgacaa 60
cttaaacacc accaatgtgg aaactacagg atacgtcatg ttgccacgtg acagagaact 120
gtcggctaata gattacatgg aactaaacga tctccttgct cctgacccaa gcttccccag 180
tgaattttct gctcaggaca atcaatatat gcagcattct cttgctcagt acaatggaca 240
ttatgatctg tcaggtcctt cggagccaac aatgcctagc attttcgatg tttttcctcc 300
caataatgga gtcctcttaa cagatgatcc agccaactac ttggaccag ccatgcagtt 360
ccctttctca tgattggtc 379

<210> 49439

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-G4

<400> 49439

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gtgaagacca taggaaatta tgcttcggtg ttgatggcac ggaaaggtgc aaaggaaaag 120
ggttattctg atgtcctcta cttggacgct gttcacaaga agtaccttga agaagtttct 180
tcatgcaatg tttttgttgt caaggacaat gttatttcta ccccagcaat aaaaggaaca 240
atattacctg gtatcacaag gaaaagtata attgacgttg ctttgagtaa aggcttccag 300
gttgaggagc ggcttggttc agtggatgaa ctgct 335

<210> 49440

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-G5

<400> 49440

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tcgcggagc

309

<210> 49443
<211> 497
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-H10

<400> 49443

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gggggaggct gaagaagctg aagatgctct gcgtgctgaa gaccgtgcgt gtcgcctgag 120
ctcctccaga tgctgcaggc ttgtggctgc cgaataagat gggtaacaa gcctcttgct 180
tacaaggact agacagactc gtgttcctca ttgtgtgtgc agtgtcagca tcagcatgta 240
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gcgtaagctc ccgtcccca gatgtgggta tggcgccttt ggggcacttc ttgcgccatt 360
tgtcactctc tgctccgggt tatctgtgta tgcaaacgga ggcaccggta atgttcatgt 420
gtatatagcg tgcagtagaa tgatccatt ttatgggatt agctagtgtg taattgttac 480
ctcatttcgc atgattc 497

<210> 49444
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-H12

<400> 49444

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cttcgacccc ctgggcctgg ccagcgaccc cgaccaggcc gccatcctca aggtgaagga 120
gatcaagaac ggccggctgg ccatgttctc catgttcgcc ttcttcatcc aggcctacgt 180
caccggcgaa ggccccgtgg agaacctcgc caagcacctc agcgaccctt tcggcaacaa 240
cctgtcacc gtcattctcg gcgcccga gaggactcct agcctgtaag gactgacgcc 300
acgccgtcga gcaatgccaa gtcattgcgt gctgcatgcc gtctttgatt ttaccgggat 360
aaaaag 366

<210> 49445
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-001-Q1-K1-H3

<400> 49445

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aaaaaaatcc aaacttacat acccatacat acaacaacat aactctttta tatttccacc 180
taaatacaat tcattcacct tttttttaca acttccttta cttcaaaaac ctttacctta 240
cccaacttaa tttcctttca aaacataccc c 271

<210> 49446
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-001-Q1-K1-H6

<400> 49446

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aaacaatgtg gaccttgga ctggctggg taaatacttt cgggtgtgct gcctcagcat 120
tattgatcct ggtgattctg atatcatcaa gactacaccg ggtgagcagt aaagaagccc 180
ctgcagtagg gggatcttac tgcatttggt cttctgtctt gttaaacagc atttacctgc 240
tagtaaaactg agttattcgg aacattgtct tgaattgaat ttttgctccg gtgttttgac 300
acttaaatag agcttttagct tataccgntg ttcaagtcgc agctgtatgt tgctactatc 360
aaaccgtcaa acgaatgctc caccaatgga ggtatctcct ataataaaga ttcattgggt 420
gtagtaattg gatgatattc ncggtacgat cttttttcac 460

<210> 49447
<211> 254
<212> DNA
<213> Zea mays

0000445.0555

<223> Clone ID: LIB3078-001-Q1-K1-H7

<400> 49447

ttcccgggtc gacccactct tcctaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaattaaa 60
acaaaaagaa aaaaaaaaaa aagcaaagtt aaatacaaaa acgaagaaaa aactataacc 120
tctcttatcc tcccctcctt actttcccct acattccacc tcatacttct tctataatgt 180
ccccctcttt caattctctt actccattat ttccatccat cttccttcta caacccttcc 240
cactaccac cttta 254

<210> 49448

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-001-Q1-K1-H9

<400> 49448

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ctgcggaaca acgatggcgg acgatgtctc ttgcgcgcga ggtcacccct cagcgcgcgg 120
tccccgcggc atcgccgctc acgctccttg cgcggcattc ctgtccatcc gcttaggtgg 180
cgcgacagcg acgcggctcg ctggactggc tgtggcctcg cagccagcgg atcgtcgcgc 240
ctcggcgatg gtcgcgatgg cgaagaggga gcangagctg gacgagatcc gggccatgac 300
gactgaacag atggaatagg angtggtaga cctcatgggg gagcttttcc tgct 354

<210> 49449

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-A2

<400> 49449

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ccctttgtgc caaacatcac aattggacc tggggtgttg atgctctgcg tccagtgact 120
gatcttccgt tggatgtaca tctgatgatt gtggaacctg agcagcgagt ccctgatttt 180

atcaaggcag gtgctgatat tgctagtgtc cactgtgaac agacatcgac cttcatttgc 240
accgaacagt caatcagatt aaaagtctag gagcanaggc agggattgtt ntgaatccag 300
cgactccact cactgcaatt gattacgttc ttgatgttgt tgacctggtg ctgattatgt 360
ctgtgaatcc tgggttttgtt ggcagagctt tatcgagagt caagtaagga a 411

<210> 49450
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-A7

<400> 49450

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tccacgctgt tcgtggtcga gttcatcctg ttggactacg tggagatccg gcggtggcag 120
gacatcaaga accccggcag cgtcaaccag gaccccatct tcaagagcta cagcctgccg 180
ccgcacgagt gcggttacct gggcagcgtc ttcaaccgc tcaacttcgc gccacgctc 240
gaggccaagg agaaggagct cgccaacggg aggctggcga tgctggcggt cctgggcttc 300
ctgatccagc acaacgtcac cggcaagggg cccttcgaca acctgctgca gcacctgtct 360
gacccatggc acaacacccat catccagacc ttctccggtt gagtcgaggt cgaggaggga 420
tacgatccat cgctggtgag ctgatatgga ct 452

<210> 49451
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B10

<400> 49451

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agcctaataa ctacggccct ggctcccgcg tctgccgggt ctgcgcgaac cctcacggtc 120
tgatcaggaa gtacgggctc atgtgctgca agcagtgtt tcgcagcaac gccaaaggaca 180
ttggtttcat caagtaccgt tgaagaggcc actgtgctgc tgcggagaac ttgctacatc 240
agagaaatgg gtccttcatt agaaggccta atttatgcgc tttagctatt tgttcagaac 300

ttgagactca tgtgttaaac tcgacttggt aaagttttga tggctacttt gtgcttgctg 360
gaccagctat catcagaaga ttgagacttt ctactcaac agagagatcc agaccttcga 420
aagggcggtc gttctagagg atcc 444

<210> 49452
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B11

<400> 49452

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tggtttcagc attttctcgg tggaggcggg tcgaggggac cagacaagct cttgctaagg 120
tgacgtgttc gtctgcagtc tttgtagagt ccaattgatc gatcattttt tttttcagaa 180
aagaaagaag aagatagtgc aatagtagta acactaacac cttgcttcat ttatggcata 240
tgcccagctg gagatgatcg tgtcggccaa tgggctctcc gaaaacgtgt tcgagattgc 300
ttcaaaaagc ttggcggatt agcttgggcg gttccgagga attgcgagtg ggagtgccta 360
actgaatctc tcttttggtg gtaaaatgac aagtatagat aataaacagg cgggccgaat 420
ttgcatgaac tgataaaata taagtgtgat gatgcccgct ttgtgggggtg tttggag 477

<210> 49453
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B2

<400> 49453

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gttccaacct ttggagacat tgtgtccagt ggaggaaact ggtgtccgtg ataaagcagt 120
tgaatctctg tcccgatttg gtgcacaaat gaatgaaact gacattgtcg actggttcat 180
tccagtagta aagaggctag cagctggaga gtggtttaca gctcgcgtat cgtcctgtgg 240
tcttttgcac atagcctatc caagtgcgtc ggaccaattg aaaacagaat tgaggactat 300
ctatgggtcag ctatgtcacg atgacatgcc tatggtcaga agagcaacag catcaaactc 360

tggaaagttt gcagctacag ttgaacagaa tcatttgaag acagaaataa tgtcaatatt 420
tgatgattta acccaagatg atcaagattc agtgcgtc 458

<210> 49454
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B3

<400> 49454

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aagcagcccg aagcagagtc aaaggaggtg gataaagtgg aggcgaagac tgacggcggt 180
gacagcgagg gagctgatac gaagcaggcc aagggtcat catcagagcc gtcaaaggaa 240
gcccctgccg tctctgccaa tgacgaggac gaggcaaaga agagcgacaa ggccaatgac 300
gccggcacgg cagagcctgc cgccgttact actgagaggt ccctgccttt ggcgccggcg 360
ccatagcacg cgtactagca tgagtaccg cgcacctact actcctggcc cgctcagacg 420
atgctgagct accacgggc gcacgcagc 450

<210> 49455
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-B4

<400> 49455

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cttgctcaga ggtgcgacgt acgacgtcga cgacgcatgc gccacacagg ggatcccagc 120
tctccgccgc cgtgccccgg atccacggcc tccggggcta cgccgcgccc agagtccgcg 180
gtgacagcgc ttacgtccgt gaggggtggc aggaagaggt cgacgactca tggcatccga 240
tgcacactgc atgtctaact gcagcaacct gatctggatg acgactagga cactatatat 300
ggtcagctat gagaagatga cttgcctatc gtcagaagag catgtgcact aaaatcccgg 360
agcgtttgca agtacagttg aacaaagtca tccggagaca caactactgt cactatcaga 420

tgattttaacg ctagatgac acgattcaga gcgtg

455

<210> 49456

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-C2

<400> 49456

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atccctattc cttgcgcgct cctctctgcc gggcggttc ttcaecgctg tctctctctc 120
cctgggtgct gctcgcgaca acctcctgct cccttcctg gtcgcgtgct cagctctact 180
gcacgccgcg ccagctttct ctccctcggc gtcacagct ctctctctcc cctagtcctt 240
gccatggcgg ccgttccctg gtcggagttt cttctagctc ggatctctc cctacggcgc 300
ccgagctcca tggtgctgc gttcttcagc cgacgcgtcc tgccgagtc ttctgcatcc 360
acacggcgtc ctgcttgcgc agctctcctc catggccgga gccctcccat gtcacgtccc 420
agccaagccc ctgcctcgat ccctgtccgg gc 452

<210> 49457

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-C4

<400> 49457

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ctaccttgtc ggagctgttt caagccctaa acgcgctttt gctgccatcg tgggtgggtc 120
aaagggtgtc tccaagatcg gggttattga gtccctgttg gagaagtgtg atatccttct 180
cttgggtggg ggtatgatct tcacgtttta caaggcacia ggtctccctg ttggtgcttc 240
attgggtcgag gaagacaaac tcgagcttgc aacgtctcta cttgcaaagg ctaaggaaaa 300
gggtgtctcc cttatgctgc caaccgatgt tgtcattgct gacaagtttg cccctgatgc 360
taacagccag attgttccag catctgcaat tctgatggt tggatgggcc tggatattgg 420
cccagattct gtcgcttcat tcaacgcagc cctgg 455

<210> 49458
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-C9

<400> 49458

aattccccggg tgcaccgacg cgtccgccac cagctgccat tgccatctac tgacctgtga 60
cctccgcatt ttcaaacagc ccgagccgtc tagatcgagc atagcggcag gcacctccct 120
actcaaggaa catggccccg acgcagcagt tggcagtagt ggcgaccgcc gcggtggcct 180
tggtgctgat ggccgcagct acctccgagg cggccatcaa ctgcgggcat gtggcgttgg 240
ccatggcgcc ctgcatctcc tacgcgcgcc gacagggctc ggggccctgc gccggctgct 300
gcaaccgcgt caggagcctc aacaacgccg tccgcaccac cgactaccgt cgcgccgtct 360
gcaactggct caagaacgcc gtc 383

<210> 49459
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D1

<400> 49459

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tcaacggcta tgctatgcaa cttcattgtc gttcggatcg gagaggggtg acgtacgtgg 120
attgattgat gctgcgagat gcatgtgtgt cttttgtttc acgttgcatt gcataggcaa 180
gtcgagatga tgagttggcg ttgtacacta agatgaacca tgtttgtgca atagtgggtg 240
tttttgtttc ctgctggtta attgttgata tccaaaa 277

<210> 49460
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D2

<400> 49460

attccccgggt cgacccaatc cttecgcccg ccttaggaac caggcaccag gtttcacgat 60
ggcggaaaag aaccatatcc gagtaggtta taggaaagac ggggcgtaca tctactgatt 120
gatgctgcc a gatgcatgtc tgtettatgt ttcacgctgc attgcatagg caagtccaga 180
tgatgagttc gcgttgtaga ctaagatgaa ccatgtttgt gcaatagtgg cggtttctgt 240
ttcctgctgg ttaattgctg atatccaaaa 270

<210> 49461
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D3

<400> 49461

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cccaggcgggt gatctggcca aggtgcagcg gggcgtgtgt atgatctcca actccaccag 120
tgttggtggag gtcttctccc gcattgacca caagttcgac ctcatgtacg ccaagcgcgc 180
cttcgtgcac tggtagctcg gtgaggggtat ggaggagggc gagttctccg aggctcgtga 240
ggatctggcg gcgcttgaga aggactacga ggaggtcgggt gctgagtttg acgaggggtga 300
ggacggcgac tagggtgacg agtactagac gctctactgg cgcggcgtcg tcgggcttgt 360
gtgccactgc tatcctgtga tctgcctga gtggctccta tcgtgttatg tttctgtcgg 420
ttcttatcta tctgtcgttg tgtggtttac a 451

<210> 49462
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-D4

<400> 49462

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ttcctggtct cccatcttca tcttctctcg agggccggga ctccatcttc cggttcctcc 120
cttactcgcg ctcggcacgc atgcgacggg agcggcgctc atgctcgggc tctcagcggc 180
gacttcagcg gcttcccctc ccgcacgcg ccctcgctc cggtcctccg cacatcggcc 240

ggtgatcctg cttaaagatg tcagaagcac tcgagaaaga taaagaaatt gatgaagagg 300
aagaggagta tgtattgcta gagttggaca attgtcttta ttcagacatg tcgccagggtg 360
ctccgttcgt actctccggt ttggatacat tgacgcctac cttgataata ggtgacagtc 420
ttaagatgat cggagaatat gaagaaacta ttg 453

<210> 49463

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E1

<400> 49463

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cagcagcagc catggcggcc gagccggata agggggctgt ccccgcgga caggagacgg 120
ccgtgcacat cgtgtacgtt gaccgccccg aggacgccga ccctgaggag ttccacatcc 180
gcaccctcac ccacgtcctc ggcagcgaac agaatgccag ggacgcagtg ctctaccact 240
acaagaacgc cgacagcggc ttctccgcta agctcacct ccagcaggtc aaggatctca 300
aggagcaacc atgtgttctt caggttgtgc cgagccatac ttaccagcta catggtcctg 360
tgtctggcac tcaccagtgc acgacacaca ctttgtgcct tatgtgaagg cttatgagaa 420
tcaagaagac tgtgtttagt atggctg 447

<210> 49464

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E2

<400> 49464

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gagatgcaag cccgggccat ttttgaagct gctatagcaa tgaccaacca ggggtgttcaa 120
gtgttcccag agataatggt tcctcttggt ggaacaccac aggaactggg gcatcaagtg 180
actcttatcc gccaaagtgc tgagaaagtg ttgcgcaatg tgggcaagac tatcgggtac 240
aaagttggaa caatgattga gatccccagg gcagctctgg tggctgatga gatagcggag 300

caggctgaat tcttctcctt cggaacgaac gacctgacgc agatgacctt tgggtacagc 360
 agggatgatg tgggaaagtt cattcccgtc tatcttgctc agggcattct ccaacatgac 420
 cccttcgagg tcctggacca gaggggagtg 450

<210> 49465
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E3

<400> 49465

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 gtttgCagct gacgtctctc atcctcgTtc tgcgcgctcc gttcctcttt cctcctccc 120
 ctccgtcttg gttcttcaca cctggTtctt ctgtctcccg ttgtctctat cgtctgctcc 180
 ggtgaacccg catcgTtctt attccttgTg ctgcttccgt cgTcggtcc agtaaatcac 240
 tctgttcgcc agctcgagat cgtggacggc ttgctaaaat cagttaccat aaacatgaga 300
 gcattctcag tgacaaatag agcatttctt attctctcta tattaacaaa ccatggaaga 360
 caatcctcag taccatcttc cctacttacc taccCGaac atcatcttat cacaagatga 420
 cgtacttggc cttacaacca cgcaccagc 449

<210> 49466
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E4

<400> 49466

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 tttgcagctg cagctcttca tgctccttcg cgtggatctc ctcatcgTgg gcgtgctcgc 120
 tccttctcgg tcttttacac ctgcttcttc tgtctcccta tgTcatctat ggtctgcttc 180
 ccatgaacca gactcgTtcc tattccttgT gctgcttgca ccgtctgctc cagattatca 240
 ctttgTtcgc cagctctaga tcgttaacag atagctaaaa tcattgacca tagacactat 300
 accattcaca tggacttata taccatggac gatactctat atattaacat accatggctg 360

acaatcctca gtaccatctt ccgtactaac ctactcccta ctacatacta tcacat 416

<210> 49467
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E5

<400> 49467

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ctctgccaat gggaatcagt tcaagcaccg tggcttatag aataactctt gctaattcatt 120
tccagagttg tattcaatgt ttttttttgt gttcgtcttg attcaaggag ccatgcaaga 180
gtgtatgagt ttagttcggc taagtaatta gtcctgagg gcttgaatta tcggttcttt 240
ttgaggattg aggatttgtg caactgaaac ctttgatcag ttgctcatgt tgagaagcta 300
atctcttgtc atatttacat gtaataaagt ccctctacta cagtaataaa ttagtatttc 360
ctatgggtcca attaag 376

<210> 49468
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-E8

<400> 49468

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gcgccgcagt gtgggccggc ttgggccttg ccgggctcgt ggccgtgcac ctccggcgct 120
tctaggccag cccgctggcc tggccaggga ggagacagtg ccgtgtgctg ttgttaggct 180
gcacgtcatg gattggattg gtgtatttgt tgagggactt gactgcttac cagagagaga 240
tctcttttgg ttcagggaac tgtgctgtag acctgtagtt ggataccttg gatgttatgc 300
tatcagtttt gctgttggtta tcaaaa 326

<210> 49469
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F1

<400> 49469

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ggatcatcaa cggactggac ctcgaggaca agctgcaccc cgggtggcccc ttcgaccccc 120
tggtgcttggc cagcgacccc gaccaggccg tcattcctcaa ggtgaaggag atcaagaacg 180
gccggctcgc catgtttctcc atgttcgcct tcttcattcca ggcctacgtc accggcggaag 240
gccccgtcga gaacctcgcc aagcacctca gcgacccctt cggcaacaac ctgctcaccg 300
tcattctccgg cgccgtcgag aggacgcccc gcctgtgagg acgcgccaca agccggcagc 360
gatgccaagt catgcgctgc tgccgtcctt gattttaccg gggaaagagc tgtgtgtgag 420
ggtctgaagt gaagaacgtg ccatgcccat 450

<210> 49470

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-002-Q1-K1-F11

<400> 49470

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ctggagggtga tccaactcccg ctgggcatg ctncggtcgc tcggctgcgt cttgccccgag 120
ctgctctccc gcaacggcgt caagtccggc gagggcgtct ggttcaaggc cggctcccag 180
atcttcagcg agggcgggct ggactacctc ggcaaccccc gcctgatcca cgcgagagc 240
atcctcgcca tctgggctg ccaggctcgt ctcattgggtg ccgtcgaggg ctaccgcatt 300
gactgctggc cgctcggcta ggtcgtcgac ccgtgtacc ctgtcggctg cttctaccgg 360
ctc 363

<210> 49471

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-F12

<400> 49471

cccacgcgtc cggccagaga gaagacactt tctgatcagt ttgaggccaa gcgtgcaaag 60
agcaaggcaa gccgtgagag gaagattgct aggagggagg agaggctggc ccagggccca 120
agagaaccaa cagcacctgt cgcagcccca gctccatcta ctggggtgcc aaagaaagca 180
aagaagtgaa gtatggaaac aaagctgtag ctttttggtg ctatataagc atgacttttg 240
agcacctgaa gtattttgct gttatataga tcgtgtctca atattctgag tcttgtatct 300
ctaccgttct gttggataat gcatgccgta agagttgttt atggagcttt tgttggtaca 360
ggaccacctaa aaatgtttgt ttgacggatg tttggaattg tggatcatgtt tatgaaaaac 420

<210> 49472
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-002-Q1-K1-F2
<400> 49472

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gattcaacca acatgtgttt attcattttg gcagggtgaag catacaaggg taacgacgat 180
gtcgacatgg aggggttgata cattctccat gttttaagga aacacagaaa gcacgcagaa 240
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tatgagcctt gtgtattttt ctgaagattc tgtccgtctc gggtttatgt tttgaggtct 360
gtttgatcct gtctcttggc catcgcttgg tcctggagtc agtcactcac taccaagtgt 420
ttcagaggtc tgaactggtg agcatataga tctgt 455

<210> 49473
<211> 453
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-002-Q1-K1-F3
<400> 49473

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ttccaaagcc aagtgtgtac taccagtcta gcgacgagct agctcgggcg gcagcaggca 120

gccatcatgt cggaggagaa gcaccaccac ttcttcaacc accacaagaa ggacgaggag 180
cagccccgccg gcgagtagcg gtactccgag accgaggtgg tcaccgacac cggcgagggc 240
gagtacgaga ggtacaagaa ggaggagaag gagcacaagc acaagcagca cctcggcgag 300
gccggcgcca tcgccgtcgg cgccttcgca ctctacgaga agcacgaggc gaagaaggac 360
cccgagcacg cgcacaggca caagatcacg gaggaagtcg ctgccgcggc ggccgtcggc 420
gccggcggtt acgtattcca cgagcaccac gag 453

<210> 49474
<211> 403
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-002-Q1-K1-G1
<400> 49474

accggtccgg aattccccggg tcggaccaag cttccgcgg acccttggcc ggaccctgg 60
ggtttttggg gacttgcaaa gtgcaacaat atggatttac atcaaatcaa gtggcgcctt 120
ctcttgactg ggagcaatat gtgtctgaaa tagcaactga tatacttaca gaacaaagcc 180
ctaaaaggct atttgctgta cgccagaaat tctatgaatt actcgtcaat tggatccac 240
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aacatgagat ctgtcactgg gccggacatt atgaacacaa gatgcgcctc ggatcaaaag 360
ctatttttca tctaaaagct ttcggggcca aattcatgag cgt 403

<210> 49475
<211> 501
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-002-Q1-K1-G10
<400> 49475

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aacagggact caaacaagag tagtagcagc gcttgtggta aaaggggttg gtggacaccc 120
ctgctattga cagctggggg tgccctccgct aaatacttcc tgcgtcacat agcatggagg 180
aattctgtct cacaaacacg tcaaaacatc tctcaacact atgatctgag taatgaattc 240

ttcatcgctt gcaccgcctt ctctctcgcc ttctctgcct actcccgtcg ccagggcggt 240
gcagagggtc aattaccagc agttactcac aggggtctacc tagatgtaga aattgatggc 300
caacacatag gtagaattgt tattgggtctc tatggggagg tcgttccaaa aacagttgaa 360
aacttttagg ctctttgtac aggtgaaaaa agtgtcggtt ccaatggcaa acctcttcac 420
tataaaggaa caccattcca tcgtatta 448

<210> 49478
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-G9

<400> 49478

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gttcagatat tcaaattctt caaaaatgtt cacactttat acaaaaagta actctaatat 120
agcatcttca cacactctca ggggacaact tcgaaactga ctgggcagaa gacttaacac 180
ggtcgaaaag ctaaagccta ttggcgagca tcaaccgtg ctggagatgg agctttatca 240
tcagcaccag gaccagagca ggtgccttct tgtccaccag catgcctat 289

<210> 49479
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H12

<400> 49479

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cctgttcttg aactagaggt tcaaggggcc gaccaacaac ctcgccgacg gcggctacca 120
catgtacaag gacatgctgg agtggattgg gcggtcgcg aagaacgtgc cccggcagcc 180
gacgcaatcg ctgcgggtgt ccatctccaa gaagctacgg gcgtacgtgg aggacaagta 240
cagccgcgcc ggcgtggaga agggcaagta cgtagtcgtc cactgcatcg catacgattc 300
cgtcgacagc atgccgtaca gaggcgacga ctactggctt cttcactcta gcactgggc 359

<210> 49480

<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H4

<400> 49480

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tgatgctgaa cagaagggct tgattactcc tggaaagagt gttttggtgg aagcaacaaa 180
gtggaaacac acgcattggt cttgctttca ttgctgcttc caaaggatat aagctgatac 240
taacaatgcc ttcataatg agcatggaga gaagagtcct ccttagagct tttggtgccg 300
aacttgtcct tactgatgct gcaaaaagga tgaaaggggc cttagataag gctacagaga 360
ttttaaacia gacaccaa at tcttacatgc ttcaacagtt cgataaccct gccaacccctc 420
aggtacatta tgagactact ggtccagaga tc 452

<210> 49481
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-002-Q1-K1-H6

<400> 49481

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atgatgctga acagaacggc ttgattactc cttgaacgag cgccaggggt gtatcatcca 180
gccgggcaac tggttcaact cctgtcacca taggttcgtg gatcaaaggt tcaactgggtc 240
cacgcttgac atgaccggta tcgtagttga atccggggag tgggctattg tagggggcac 300
cgttcagttt gtcattggcaa acggtgtca 329

<210> 49482
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A2

<400> 49482

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tggcgttcgc atccggactg tgccccagtt cgaatcgcca aagaccgggt acaacccccca 120

aattcttgcg aatcggttgg ctgcaaaaaca ccgtgtacat taacttggtc ccttaaagcc 180

tgccttgggg aatcctttca aacctggcct tttgaaaatt attaccagtc catagacagt 240

ggagccacca ccaggaccac ttgaaatgga aaagcttttg cctgaggaaa tagtcctcct 300

agaaagaaca ctacctgatg gaagcacaaa ccaaatttta ttttattaac ccagagatct 360

tga 363

<210> 49483

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-A6

<400> 49483

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ggagatccac agtgacggcg gctagaccaa tgccgtccgc cagtcagcga acatctggct 120

aatggctcga cgtcaaaaatc tttattacgc aacaactccg gctatgccta gctcgactag 180

attatgtcca tacactacat ttatcacggc taaaccaa 218

<210> 49484

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B8

<400> 49484

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ttcctttctc aaatactctc tcgggtcttc caa 93

<210> 49485

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-B9

<400> 49485

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gggcagccgg gtgtcggcga ggaacccccct gatgagcagg aacctggaga ggaatggcag 180
gatcacctgc atgacgtttc cccgggactg gctgcggagg gacctgagcg tcacggctt 240
cgggctcatc ggctggatgg ggccgtccag cgtcccgcc atcaacggca acagcctcac 300
ggggctcttc ttctccagca tcggtcacta gctggccac ttgccacgc ccccgctcgt 360
gacctaccag ttctggctga ggctagtgc gtggcacct 399

<210> 49486

<211> 466

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-003-Q1-K1-D12

<400> 49486

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gcaagcagtg ctatgagatg gagatgatgg tgaggcgtga tctttctata ggtaaataga 120
acagattatc caacagctga tggaacctgc attagagata ttatgttgat gtcacagatt 180
tagttgatgc tcatgtgaaa gcgctcaaca aggcagacac tagaaaagtc agtatattaca 240
acgttggaac aggaagagat agagaggccc gcacatagtt aatctgggac aacatatctc 300
tgtactggcc atagaggaca acataaaaaa tcaaaagttg aagaatcacc aacgggtgcct 360
nctttgcacc cttcagctca agaacctggg cccgagccag ttcaacaagt catgctcaca 420
gctgaagtgc tgaaccaaca gaattactgt atggaatcaa tgaatc 466

<210> 49487

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-D6

<400> 49487

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gatcttgtaa acgattgcaa cttccttaag tctcacttca ccatcatctg cccgttcaac 180
accaattatt actgatacct cttctatgca ttaatgtctt tatccatta ctataccatc 240
ttttcttcat cttcactacc aacttcagtt atttagcata ctattgtcta ttcagactga 300
cgtctactca ttaatatatg acatgcatta ttaatatt 338

<210> 49488
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E2

<400> 49488

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ggtggtttgt gatatatgat ccaaccagtg atgaatcaat gcattcactt gtgtacacaa 120
aa 122

<210> 49489
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-E5

<400> 49489

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atctgttctt cagagccac tcactgcta cccttgatac tctatcgagt ttccacaaca 120
ttatgtctta ctccatcggtt agaaacaccc caggacacca ctaccataac gatcgggttac 180
gccataatat acattccatc attcattctc accaatgttc aagacaatac taatatctct 240
taaagtctga tc 252

<210> 49490
<211> 327
<212> DNA
<213> Zea mays

ggttatgggtt agttaaacct actgttctac ggttgtggac gtcatgcact gctgtcggag 60
 tgggtgatta ataatttaac tttccttttc tttttttttt accggtcagt gtaatctcgt 120
 tgctcttcag atttaccata tgtgtttcac attcaaaa 158

<210> 49493
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H10

<400> 49493

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 tgcgctgagg gcgaggagcg agaggggtgcg gtgcagctac gccaaaggacg cggccccagt 180
 cagcaccaag ggcgcagtcg cgtcgtctgt cgcgcagcg ggcgcggtga ccgcgtcagc 240
 ggggcccgcg ctggcgctcg tggacgagcg catgtccacg gagggcaccg ggctgagcct 300
 tgggctcagc aacaacctgc tgggggtgat cctcctgagg gtcttcgggc tcatctggtc 360
 cctctacacc atctacacct ctgacctgga cgaggacgag gagtccggtg gcctctcgct 420
 cta 423

<210> 49494
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H11

<400> 49494

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 gcgatggctc ttggagtccg atggcgggag gatgctccgg aagcgcacgc tggcggccat 180
 gcggcaggcc aaggacgcgc tgcgtgaggg cggtagtcg gaggccacac tgaccggatt 240
 ggtggacgag tggaaacgca tttgacgcgg tacgtgggga ttgggaacgg gtgacgttac 300
 gcgacggatg aagtgccggt catcatttct tttaaaaaaa tatatattag taatatattc 360

atgtatttat caataaaaga tacaatctat tgcattaaaa agataac

407

<210> 49495
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-003-Q1-K1-H2

<400> 49495

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gcgctgcgga tcgaggcggc caggcagctg acggggcggg tggtgacgac caaggcggac 180
aagacggtcg ggggtggaggt ggtgcgcctg gctccacacc ccaagtacaa gcgccgggag 240
cgcatcaaga agaagtacca ggcgcacgac cccgacaacc agttcaaggt cggcgacgtc 300
gtcgagctcc aacctctccg tcccatctcc aagaccaagc acttctctgc catcccgctc 360
ccgccccgcy acactcgccg caagtctcag ctctaccgc cgctccagtc cgacgacgac 420
ca 422

<210> 49496
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-A6

<400> 49496

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tcctggaata ggttgtecca gttctgcctt gctttatatt tgccctgagc ttaattggcc 120
tagtttgtag caaatcaaact actacatatt ttaagtaatt atttctctgc ctataattat 180
cgatgggtag gctgccacac tttcatttgg ctagtaatgt tcctactact gactgggttc 240
tttattttcc tttccagctg ctgagttctt tactctcttc aaaatgaaac tgtgtcgaaa 300
taagtttttt tgagaaaa 318

<210> 49497
<211> 361
<212> DNA

attatatccc atacaccaac ctccgtgtgg tcgtctacat aaatggcatg gacatcaagc 120
 atctcaacac caactacatc tcccaaata agctatacat acacagccca tacgcccatt 180
 acatccacaa gccctgcgca accatcacta tgcacaacta cggggacaat aacgtatact 240
 ttgacctcga ctacatcaac cacaccacct cacagtgcga cctctacaga tctgactcgc 300
 cctcttacta caaccttcta ca 322

<210> 49500
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B6

<400> 49500
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 atggttctta cactaccata cattactgag gtagggctaa ttgccatcct gagtcgactt 120
 cctattttctc agcgctatga tcacacgtca tgccatcaca atcctctatc tattagctag 180
 aatgcta 187

<210> 49501
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B7

<400> 49501
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 gtttcttaca ctaccatacc ctactaagggt atgccttatt gacaacctga atcgacttca 120
 tattttctcag cgtaatgatc acacgtatgc catcacaatc ctctaactat taccatagaa 180
 tgct 184

<210> 49502
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-B9

<400> 49502
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 gcgagccgca tcaaggagcc ggaatggctg gcaagatcac cgtcaactaa ttaagctagc 120
 tatcgatcga tatccattca tgtattagct gttgcttctt gctttgtact ccgccgatct 180
 gtccatctct acatgttttc gtcttcacac aacaacctct gctacgacta cgtatatatg 240
 catgctacta gctgattgat ttttaacgca ccaggccgac cccgaaagct agcttggacc 300
 aagttttgta ccattaatt ctaccgatgc atctctcagt ttagactccc ataatacatc 360
 aaactgctag ctttcatctg caaaa 385

<210> 49503
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-D1

<400> 49503
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 gtgaaacaac ttattagaga tgcaagacag ccaatacga atgctagaaa atcggccgcy 120
 cttaagggat gtcttcagcg tcgaggaaca tgtgctaggg tgtatactat caaccccaaa 180
 aaacccaact ctgccttacg taaagttgcc agagtacgat taacctctgg atttgaaatc 240
 actgcttata tacctggtat tggccataat ttacaagaac attctgtagt attagtaaga 300
 ggaggaaggg ttaaggattt acccggtgtg agatatcgca ttattcgagg aaacctagat 360
 gctgtcgcag taaagaatcg tcaacaagg 389

<210> 49504
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-D2

<400> 49504
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 ctcagaggtg cgacgtacga cgacgaggac gggggcgcca cacatggcat cggagctctc 120

<211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-E8

 <400> 49507

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 ggactcgtgg tctgacgcgg gggccttcac gaggaggagc acgtccatga gcaactcgtc 120
 tagaagctgc tcaactacgc cgagcgcgac aaggagcatg acttctggct cgacgtggag 180
 cccaagtcc tagacagggt ccccaacatc accaagcgcc tcaagctccc ctccgtcgcg 240
 cttgtctcca ccgacggcaa ctggatcaca ttcatagaat taaggctaga cagggtctta 300
 caagaccagt tcgacgcata atcagttgaa gaggcattgg cttctaacc tggtgagttg 360
 aaatttgaga agcctgagaa atggacagct ccgtacccta aatatgggtt tggatgggtg 420
 gaaccctt 428

<210> 49508
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-F1

 <400> 49508

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 tgcatacatg ttactatcta atcgatgcgg taacaaacc agagacatgt ttacgtcctg 120
 atatagcatt catcccatct tctcattact ttgacatcta cacagtcaca actacagcta 180
 tctgtgttcc agatattgta catattcatg tcatccatct tcaactgtcca cttaatagat 240
 taatactgaa gctactatgc aaaatcttca ttaatttcta gccacactga ctctaactat 300
 ca 302

<210> 49509
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-004-Q1-K1-F12

<400> 49509
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 ggtcacaaga cctcagtga ctacaggggg gtgcctgtgt caccactgac tatgttgagt 120
 atgcatttaa tgccagtggc gacaaatcaa gagaggcagc agagtcctgc cctcttcctt 180
 aaattaaaac aggcagtgct ggtccctgag accgtctgtg caggagacaa caccttcaaa 240
 cagaaaggcg atgacgtaga cagcacaccc ttctccttgt tccagttcaa cctgccgatt 300
 ggcccttcca ccctggcaac attcaaagag cgaaatgggg aa 342

<210> 49510
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-F5

<400> 49510
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 aagccaagag caggcggggc ccagcccgaa aacagtcctc aaagaacact gcggaaggag 120
 cccaccgccc aatgatggat ggcttcgagg agtaaaccat gctctcaccg gcgttgtaag 180
 ttgcctctgc attcattctt aagatgttag ttgatgatgg cagcttcacg ccgaggcagg 240
 ttgaaagtgt tgccttggag caccctctgt ggtgttggtg tgtcaatgga tgggagtcga 300
 atctcattga aaacgtacag atggcttata cccactaat ctgtaattca gtcagcgcta 360
 tttttgtccc cacctacgat tttcatcttg ctggatgtat gcttgacaga tgatgatact 420
 gacctcgtgg tggtgaaaaa ga 442

<210> 49511
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H2

<400> 49511
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 ggtacctgct gctagcgata tatggcagca tcacagcca gcagatcgtc gccggcacga 120

tggccagctc gtcgtcgtcg tgcgcagctc tggcgcctc cgtgggtggtt ctagccgcgg 180
 cggtggcgtg ctccgcgacg cgcgccgttc ccgcgcggca gcgggcggcg gcggcggagg 240
 aggaggacgt gaggcggccg gacacgctgc acgagggcac ggtgctgatc ccgggggatgg 300
 ggcgctacga gatcggcagt cactacatcc cggacatcgg cgggctggac cacagcgtgc 360
 ccgccgtcac ccaactggcag ttcacccccg gagccgacga cacctgggtg ccc 413

<210> 49512
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H3

<400> 49512

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 caccgtggac tcaataatct ctcttgctct aaaatcgatg tattcgtttt tcttggtgatt 180
 ttgtacatgc acataaattt ctctctggaa aa 212

<210> 49513
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-004-Q1-K1-H4

<400> 49513

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 tttcctcggc cgggttcgat atgacgaagc gaaccgagaa agccggaatt gttggcacat 120
 atggaaccag gtatggtgct aacttgctga aaccaaata gaaaaatgga ggtttctaac 180
 acctccaagt ttttttggga agtctgtggg aaagtctcct tgaagaagaa aacggttggg 240
 atttggggat gcaaggactg ttggaaagtc aaggcccgtt gtgcttacac catgaacact 300
 tgtaatgcgg tcaactgtcaa gagcaccatc cgtcgcttga aggatcctac tgtagcatga 360
 tcggtcgttt gtcaagcata ctgggggtcca ctatatttgc tgtgtatccc atacattctc 420
 caacattttt g 431

<210> 49514
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-004-Q1-K1-H9

<400> 49514

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tggaggaatg agcagttctg ggtcattgga ggtgtgtcct cacacctctt tgctgtgttc 120
cagggacttc tcaaggtcat agctgggtgtt gatacaagct tcaccgtgac atcaaagggt 180
ggagatgatg aggagttctc agagctatat acattcaaat ggactacctt attgatacct 240
tctaccacct tgcttctatt gaacttcatt ggtgtggtcg ctggcgtttc aaatgcgatc 300
aataacggat atgagtcacg gggccccctc tttgggaagc tattctttgc attttgggtg 360
acttgccatc tttatccctt tctcaaagggt ttggttggaa ggcaaaac 408

<210> 49515
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-A10

<400> 49515

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gcaggtgcac ctgctgctgg cggagctgct cctgcagctg aggcaaagaa agaagagaag 120
gtggaagaga aggaagaaag cgatgatgat atgggcttca gcctcttcga ctaggttgca 180
cagtcacac agtattgttt cgggcagtga aatcaaaggg aaaccagagt catgtttaga 240
ttttaacctt attttatgtt ggaaagtact gcaaagactg ctaattgtct ctgtatttgg 300
taattcagct gtagattgct atgatggttg ggatttactc gtgaaccaga gtttttctat 360
cttatatcct gaattggtta tcccaaaaa 389

<210> 49516
<211> 229
<212> DNA
<213> Zea mays

aacaccgatc ggttctgatg tactgctatt tattgctctg atatttttgt catgtatgtg 180
attggtgact tgggctttac tagaggaaca ttcgtggtat agttttgaag agagaagtga 240
gtcataaaat tagagatatc tgcattcatt gtgatctatc tttaacactt catttttact 300
gtagacatca agtaagtggc gacatcaca cccctacaag tttgtgcctc aaaacaagag 360
gatacaagaa gttggaatgc ttttgtgaag gcttttgcga atcacttg 408

<210> 49519
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D1

<400> 49519

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atgagcgcca tgagcagcgc caccgacaac tccatcgagc tccgcaagaa cctctccatc 120
gcctacaacc gacagcgcca ggccaagatc accggggaga tcctcgagat cgtcaccggt 180
gccgacgccc tcgctggctg agcctg 206

<210> 49520
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D4

<400> 49520

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accttacact catacaggat caatgaagct gatatcaaac ttcgccagct ttcattcttga 120
acatctttat catgtatcac tatcatcact aaatcatcat tctgtatcaa ccacacatga 180
ctatatacct tcacaatcta tttccctcaa aaatcattta acaatgatat acccacaata 240
ccaaatatat tcaaaagttc acttctatga ctacatttac tcaactactaa attctttcta 300
tacatcctga cttttttact tattgcatac attacactta taccaaatta tcaactcatta 360
cacatttctt tcacacaaat tttaaaatac tttc 394

<210> 49521

<211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-D5

<400> 49521

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 cactcaatac atcctcaaca tccactccta cacctcctac gacaccaaaa cctctaccac 180
 ctcaacacct gccatacctt tacacgcacg acctactcaa acagtactac tacctcatct 240
 caacaccaat acaccctacc tctacttcat catcaaccac tatctcatcc accacaactt 300
 cacctacccc tactttctaca acttcaacta ctataccatc tacaagctgc ccatcaacga 360
 ctccaacaac gccacccc 377

<210> 49522
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-006-Q1-K1-E7

<400> 49522

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 cctacgccat cagcgtgcct gagccccctgt ccgtgttcgt cgactcctac ggcaccggga 120
 ccatccccga caaggagatc ctaaagatcg tcaatgagaa cttcgacttc aggccaggga 180
 tgatcaccat caacctcgac ctcaagaagg gcggcaacag gttcatcaag accgtcgcat 240
 acggccactt tggcctgac gactccgact tcacctgtga agtgggtcaag ccctaaaga 300
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21218

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 atatgtgccg tcaactcctag tatatagtag tgagtgacta gttgggtatgt gtagtactgt 300
 actatctttt ctccatatgc atgttttgcc agcgcgtaat gaatgtaatg tcagtactgc 360
 taaaaaaaaa aaana 375

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 <212> DNA
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<223> Clone ID: LIB3078-006-Q1-K1-F6

<400> 49526

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 gtgaaaaaat ttgcttcaaa atgctctatt cagcccaacc aagttgacca aagccattcc 180
 caagattgcc tatattgggc ttaattctct tgccaaaatt cttcattgct tggttcaagg 240
 tggctttttt caacgggtcaa ggattaagaa gttgaaaaac cttcctacta aagcaattcc 300
 ttttggggtca acaccaaga ttaatgatgg cacatctgat gttggaacaa attgg 355

<210> 49527
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-F7

<400> 49527

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 gatccggaag aagagggtga agcgccacca cttcctgagc aagggcaagg ggaagggagg 180
 acgacggtga ggagaggaac cagccagcca gcccatgggt gcacacgctc tgctcagctt 240
 gttttaattc cgatcttttt gcagaatttg gcttacaaat tcgatgctgt tgttgtctgt 300
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<213> Zea mays

<223> unsure at all n locations
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aggagcatat gaaattgctc acgaatatta ngaagattaa tgagcgaaaa atgcgaaagg 180
caaaatcttc tgaggatggg gatgccatgt ctatggcctc aggagctaca aggcaaagta 240
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tttctaccca acatactgct acttctcgat ctctgactga atcaaaagct tcaactcggt 360
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<210> 49529
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-G8

<400> 49529

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cactatcctg atcgagttcc ttatcaagaa ccatgtttta gacattatga tcgatgctat 180
ggctcaagac catattagag tcatcaccat atataagcac ttgcacaatc cattcctgat 240
agatggccac agattacg 258

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555760" 444660

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ggcagcaggc agccatcatg tcggaggaga agcaccacca cttcttcaac caccacaaga 180
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ccggcgaggg cgagtacgag aggtacaaga aggaggagaa ggagcacaag cacaagcagc 300
acctcggcga ggccggcgcc atcgccgccc gcgccttcgc actctacgag aagcacgagg 360
cgaagaagga ccccgagcac gcgcacaggc acaagatcac ggaggaggtc gctgccgcgg 420
cggccgtcgg cgccggcggc tacgtattcc acgagcacca cgag 464

<210> 49531
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-H4

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ttttggcgat ggtgtctcct gtcactcatt ctgtgggcaa ctgtgttaaa cgtgttggtg 180
tcattggaac atcagtgtgt ttcttcagga cacctgtttc tcctatcaac tc 232

<210> 49532
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-006-Q1-K1-H8

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ggcaactgtg ttaaactgtg tgtggtcatt gtaacatcag tgctgttctt caggacacct 180
gtttctccta tcaactctct cggtactgcg attgcacttg ccggagtttt cctgtactca 240

gctctagaac gagtggatcc ctcgggctgc acgaattcgg cactgagttta tattatctag 60
ctcgttgtct attcctttctg ctaggggttat atccacatac cgtgcgccaa ttccatatag 120
gccctgtatt tacagattat cagggattat gtcactctgct atcatcctat gataccttaa 180
aggagtgcctt tctaactata tccatctaga gctgcgtcaa atgctcttca aacacattcc 240
cataagcctc ctacctcttc atctgcttct attttcagat tataaccatc acagcctttt 300
tcatgaaatt caattcaagg gatgtcaaga gattttcaat aaattagctt tcttactgtc 360
tctgcacgcc taaagacagt tcctgcttat attaatactc tgatccgttc agatagaata 420
tgcattttta gtgccatagt aaactaatct ctatcaata 459

<210> 49536
<211> 105
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-007-Q1-K1-D1
<400> 49536

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taaacttaac ctgttaatcc gctttcaaac ttggggggca ttcct 105

<210> 49537
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-007-Q1-K1-D10
<400> 49537

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atgaaggaac tgaaggagat ctgtcgacgc cgaagtgcct ggcaaacttc ttaacagtag 180
tatgcttgac ggccatctgt ttgtacctaa ctcttttctc atttgtgtgg ttcaagggtct 240
atgtttagac aagctgcgt tacctctcat ttgttaccta ttactccata ctaccacccc 300
aactgatagg ttcaccagag ggtgatgtca aggccaaaaa ggttgtgtag atgttgatgt 360
aacttgccat gaaaactgta catccgcaaa cgatttttac tgctggaaaa 410

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

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<213>	Zea mays

<400> 49539

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<400> 49540

21224

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 tggccttact catttcacct cgaggatctc gtccaaggcg taattgttgg tagacactcc 240

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 <211> 411
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 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-G3

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 caaggagagc gtcctccctg ccgacgtcac agcgaggatc agcatcgagg ccgggtccac 240
 tctcgggtgg cagaagtacg tcggagccca aggcaaggcc attggcatcg acaagtctcg 300
 cgcgagtgtc cctgccggga cgatctacaa ggagtacggc atcacctgtg agagcatcat 360
 tgcaactgcc aagagctttt aagagctaac aacgggtctgg gagttttttt t 411

<210> 49542
 <211> 436
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 <213> Zea mays

<223> Clone ID: LIB3078-007-Q1-K1-G8

<400> 49542

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 taacaaagtgt ggctatccca gctgagaatt ttcctttctg taccatcgaa ccaaatgaag 180
 cacgggtgaa tgttccagat gaacgggtttg attgggtctg caaactttac aagccaaaga 240
 gtgagggtgcc tgcatactct gaagtaactg acatagctgg gcttattaga ggtgctcatg 300
 ctgggggatgg tctgggcaat gcattcctct cacatatacg tgctgttgat ggaatcttcc 360
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436

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gcttcttttg	caccacaagg	tcgaggatgt	cttgcaactg	cggatcaagc	tgcggtgcg	120
gctcaagctg	caagtgcggc	aagaagtacc	ctgacctgga	ggagacgagc	accgccgcgc	180
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ccgcggtcga	gtccggcgag	gccgtccacg	gctgcagctg	cgggtggcaac	tgcaagtgcg	300
accctgcaa	ctgctgatca	catcgatcga	cgaccatgga	tatgattatt	atctatctag	360
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447

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<210>	49547
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<213>	Zea mays

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<400> 49547

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 gtggttcgga gcaacatgtt gaattactta ccaccactc tgtgacgtaa gaacgcgtgc 180
 tgaaattatc atgtcgatac caagttatgg catatggatt ggataagaat gggaaaaaat 240
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<210> 49548

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 tcagtaggtc canntctatc gtcggtttct agtctatatg ccacgagttt tgtcgctaac 180
 gaacaaactc agtcagatcg ttgttggtga actctattca tcgatggagc ctttaatttg 240
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<210> 49549

<211> 191

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-008-Q1-K1-E6

<400> 49549

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 ggggtaacga aggtactttg gcatgtccaa atgtcgtagg attatcgnaa tccatcagtc 180
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<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-E9

<400> 49550

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cgtccgatca ccgatgaacc tgcgggtgct gcttcacacg gaataagtga taggctgtac 120
gaataccatc taagggatgg caaccggtag tgaagcctcg aaagcagctg aagctgtggg 180
tgactggcat aaacacgaca gcaagaggat gctacatgct gcttaccgtg atggggatct 240
gaaccgcaca atcaagtact acacggaatg ctttgggatg aaactgctga agaaaagggg 300
tgttcctgat gagaagtaca ccaatgcctt ccttggcttt cggccagata acaccaactg 360
ttcagttgaa ttgacttaca actatggcgt tgacaagtat gacattggaa caggctttgg 420
g 421

<210> 49551
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-F3

<400> 49551

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taggaaacca ctatctacta tcacgttggg gatggatcat cacatcaagg aaacgtatca 120
tcaatggaag aaaacactga tgcttattta ctacattatc ctcaagaatt gaaagactca 180
actgaaccta tgcataatat tgctgacccg ggaaatgcta acctcagacc caaacttgat 240
gaagtcctcc ctaa 254

<210> 49552
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-G10

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aaaggaaaaa gagcgcatga ctgctgtgaa taatattatc gggaccttcc tcggacacaa 180
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cagcgataca aatttggctt ctttaagt 328

<210> 49553
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-008-Q1-K1-H2

<400> 49553
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ggggatcaga gaggcccacg acaccattgg ctttggcata aacgccggcg tcaaagacga 180
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cgatgcccta atcctctaca ggatccaaag gtcacctgta gctttgacgt tatctgtgct 360
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<210> 49554
<211> 457
<212> DNA
<213> Zea mays
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 ttcacaaagc taggattaat ggtcgctggg ggtattgtgc tggcatcttt tatgacatac 420
 tcagcggagc atcttgcaat ctcagtcttc aacaagg 457

<210> 49555
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-008-Q1-K1-H8

<400> 49555

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 cgcgccaga acggctctgc catgatcgac ggctccgaga gcttcgacgg cgccaaggcg 180
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 aagggtctcg tgtcggaggc ggagtcggc aagaggctgg cgcattgtgt cagcgacccc 420
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<210> 49556
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-A3

<400> 49556

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 tcttggattt tgctttgcta ttggactcta ctaccgtact ggaaaagaaa acttccttgt 180
 cacaccaatt tctggtttcc acgggtggct tggtggcttt cttggggccc tgaaacaact 240

663760-446660

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274

<210> 49557
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gctcaaggaa ggaaacgagg aggcattgca ttctgatgca catggtcttg aggggtcaacg 180
gaagcagcat gatattaggg ggtgcaaatt tgtattcctt ggtgaatacg atcatgacca 240
aagccaggaa aaggttagcc tgagaagatt gtcccggcgg ccaaagtact ttgaaaagct 300
gctcctgtta gcctgatggg catatctatt ctggaactgg aact 344

<210> 49558
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-B11

<400> 49558

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<210> 49559
<211> 341
<212> DNA
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<223> Clone ID: LIB3078-009-Q1-K1-B9

<400> 49559

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eggctacccc ggcagcgtct tcaacccgct caacttcgcg cccacgctcg aggccaacga 180
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 caacaccatc atgcagaccc tgtcgggttg agtcgacagt c 341

<210> 49560
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C12

<400> 49560

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 gagctcgctt ttgagggggg catcgacgag gccaacggga gctctgatat ctccaagtgc 180
 gcggcgctgg tgaacacggg ggacgttatg atgggcgtcc atggagctgg gtcacaaac 240
 tgcggtgtct tgccgaaaaa cgccacgctg atccaaattg tgccgtgggg aggggtgaaa 300
 tgggtgttcc gcaccgactt gtgcaacccc gcggagctga tggggc 346

<210> 49561
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-C2

<400> 49561

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 ctcatctacc tgacagacgg cgccagcaaa ggtgtgatgc aaatgctgaa tgccatcatt 180
 agaaacgaga gggatgggat cttgggttct gttcctcagt acccacttta ttctgctatc 240
 atttcctct ttggtgggtc tctgggtcca tactacttgg aagaagacgc taactggaac 300
 cttgactttg caaacatccg acaagcagtg gccgaggcac gttcgaaggg aatcactgtt 360
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ataaggaac ttgtgcgata ttgctacat gaaaact

457

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<212> DNA

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<223> Clone ID: LIB3078-009-Q1-K1-D3

<400> 49562

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ggactagctt catgccgcca agagccgcca gagatgccta cagcctcctt cccctcctac 180
cgccctttct gcgagtgtg tccgtgggga ccggggtaac gtcctcaatg cgtccgattt 240
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<210> 49563

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-D9

<400> 49563

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gacgaggccg cgctggagcc gatgtgcggg agtactacga cgacgcggcg ccaaagcgcc 180
acaccaagcc cttccgcagc gagcactccg ccgtgtacgt cgacgcgctc gtcccgagc 240
tcggcgga caatccaccc gagctggaca agttccaaga gctggaagca cacaccgaga 300
ggttggtgta cgagggcgcc aatgtgggag atgagttcgt ggagacggag tactacaaag 360
acctcggcgg cgatcgcgag cagcaccaca cgaccgaac gggtttcatc aagatggac 419

<210> 49564

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E10

<400> 49564

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cttaaggcct gtgaccttgg taccggtttc catgggaaaa ccattggagg taattaccct 180
tgccccaaaa ggaaggctac cct 203

<210> 49565

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-E11

<400> 49565

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cttggcgggc ttttcgtgaa ggccgtggcc attaagggtc ttgcccgag cttcattttc 180
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<210> 49566

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F10

<400> 49566

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ccagtcaacg gagtcaacaa ggacaccttt ttgcca 157

<210> 49567

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-F9

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 ggtctataaa aaggttgagg caacccccaa cgggagggtc ttcttgatta aatccaaagc 180
 atttcccaaa ccgggatacg gaggttgct tataaaggcg gcgttaaacc 230

<210> 49568
 <211> 233
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-009-Q1-K1-H6

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 cggcggatgt gctgtccagg cagatgatcc agtgcacagc ggcagatttg gcgctcgagg 180
 acaccatcta cgcgctcgac aaggcaatcc atgaaggatc cgtgcccttt gac 233

<210> 49569
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-009-Q1-K1-H9

<400> 49569
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 tcggaactta aaaatccggg aattccttca tttccaaggg gaacgggccc tccacaaagg 180
 gggtgccgac caagttttac aacggcc 207

<210> 49570
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-A5

<400> 49570
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 ggcgcttcgg acagaccttc gagggcaaga acttcagggg ctgagctcag gccgcgagt 180
 gcggcgagaa gaagccagcg ctcaaggcct tcttcgccg tactattata tataccgtga 240
 ttactgctac tagtagtcgg tataaagcgc gtgttagggg ggtgggaatg tacgtgaatg 300
 cccgtttagg gtcacgccgt ctgcacctgg ttcaagtact ctctgaaaaa aaaggagcct 360
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<210> 49571
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-B12

<400> 49571
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 ccgaccatat caattgacaa cacatctgga tgtcaattat acttaatcaa aaattcactg 180
 ggagcttcaa ttacttctgc taaatctaata gaaatcaatg tgatgggtcc aagtggcagt 240
 actgactgtg attgggatga gcatgcattg cctaagcagt acatccataa tttcaaagat 300
 tggcaattca ccaactatacc aagctcacac tctggggcgt aaataccaat tggtactgat 360
 gtgtttgctt tttatttcac gtttgacctg tttttgaaaa tgaacgtttg atgaggtttg 420
 taacagcttt gggctctctc 439

<210> 49572
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-011-Q1-K1-B5
 <400> 49572

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 agggcttggc ttggaaaaca tcaatgttgc tacacaacgt ggttttgtgc ctgttgatga 180
 acggatgcga gtcattgatg caggtggcaa tgtggtaccc aatttatatt gcattggaga 240
 tgccaatggc aagctcatgc ttgccatgc tgccagtgc caaggaattt cagttgttga 300
 acaaattctc ggaaggatc acatgctaaa tcatttaagc atcccagcag catgttttac 360
 ccatccagag attagtatgg ttggattgac ag 392

<210> 49573
 <211> 86
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-011-Q1-K1-B8
 <400> 49573

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<210> 49574
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-B9
 <400> 49574

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 atgttttctc cagggtctcc gtcttttcct gagagggtgc tacacaagac gaagtggggg 120
 attacgagcc tataacaact gatggctgtg gtgctgcagc cctctgacct acaggggaact 180
 atggcgtgta c 191

<210> 49575
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

[illegible]

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tgtccatgct	ggcgttcctg	gacttcctga	tccagcacia	cgtcaccggc	aaggggcctt	180
tcgacaacct	gctgcagcac	ctgtccgacc	catggcacia	caccatcatc	cagacctgt	240
ctggttgagt	cgacgggtcca	tcagggtcatg	tggtccgagc	tgaaaggcct	agactcgaag	300
acagttcgtg	tgatgcgttc	ttaatcgact	gagggctaag	gaatgtgacg	tactgggtata	360
tgtacattag	ttgaagcgga	ggctataaag	ggtgtagaga	ttgtttcatc	aatgtatatc	420
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<213> Zea mays

<400> 49576

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caccgacgtc	atccacgacc	cgggccgtgg	cgcgcgcgtc	gccaaggtca	ctttccgccca	180
cccattcagg	tacaagcacc	agaaggagct	ctttgtcgca	gccgagggca	tgtacacggg	240
ccagttcgtc	tactgcggtc	gccgcgccac	cctctccatc	ggcaacgtgc	tgcccccttcg	300
cgggatccct	gagggtgccg	tcgctctgcaa	cgtcgagcat	cacgtcggtg	accgcggtgt	360
cttcgccagg	gcctctgggg	actacgccat	tgtgatcagc	cacaaaccct	gacaac	416

<213> Zea mays

<400>	49577
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 tttcctaacc cgcagccccc ggccacagtc tctctcttcc ggtccagtgg gggctgctag 180
 cttccaggaa tattggagat gtgccttcaa cactctaggg ctcgattgtc tccagataag 240
 caatttgctg cagaaaaaag ttttgccttg tattgcaagc cagttgaatt atacaatatt 300
 atccagaagc gagctattaa aaatgtaa atttatcttac agttgcactc ctatcataac 360
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<210> 49578
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-011-Q1-K1-E12
 <400> 49578

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 tcccacttcg tccaggacgt cgtcctcagt tccgacggcc agttcgccct ttccggctcc 180
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 ggccacgaga aggatgtcct ctccgttgcc ttctccgttg acaaccgcca gatcgtctcc 300
 gcgtcccgcg acaagaccat taagctctgg aacaccctcg gtgagtgcaa gtacaccatc 360
 ggaggtgacc tctgtggcgg cgagggccac aacgggtggg tctcctgcgt caggttctcc 420
 ccaaacacat ttcagccac cattgtc 447

<210> 49579
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-011-Q1-K1-E7
 <400> 49579

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atgttctttg cttcagacga gaggattaag gctgtcacgc agatgattat ggctgccacg 180
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 caccagttcc ttccagaagg gaacatcgcg gacattgcac gtgaatcatg tgctgagacg 360
 gcagccaacc aggacgatgc cctcgcgcgga attgaacagc tctcagaagc aaacccgacg 420
 cttggctt 428

<210> 49580
 <211> 276
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-011-Q1-K1-E8

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 cgttacatta cgtgcatgct cgcccgatc gaacctttac tgtatatggt gccagttcg 180
 atgaatgtaa tgcattgatgc tacttttgag cttcaatgta aaatctatgc cgtccggccc 240
 caacgcactc aggtttaatt tgatgcaaaa aataag 276

<210> 49581
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-011-Q1-K1-F12

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 cgtccgtcag ccggaagccg atgccgacgc cgggcagcga cgagtacgcg gagctggagc 180
 gcaagccgga gaaggtgttc gtgcgcacca tcaccagcca gttccaggcc ctgcgcggca 240
 tctcgtgct ggagatcctg tccagccact cctccgacga ggtgtacctc ggccagcgcg 300
 acaccaagga gtggacgtcg gacgccaagg cgcaggaggc gttcaagcgg ttcggcgcg 360

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406

<210> 49582
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F2

<400> 49582

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tatcgaacct ttgctgtata gggttccgat ttcgtcgaat gtaatgtatg atgctacttt 180
tgagcttcaa tgtaaaatct atgccgtccg gcccacacgc gctcagggtt aatttgatgc 240
acaaa 245

<210> 49583
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F3

<400> 49583

accggttcgg aattccccgc tggacccacg cgtccgcgga cgcgtggcag attcaagatg 60
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aatctttgga cctcaaatca gaagttgggt tatctttgct tgacagccca ctacattaat 180
gcagacttta tcttgaaaaa aaagattatt gcgttcaaat atttgaaata tccacatata 240
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atgtttacta tcacattaga taatgtttct aacaatctgt cagtgcgtga ctttcgagaa 360
agtgggctat ttggaggcga tcttcgtatt gtccaatgtt gtgcacacat attgattctc 420
ttagttcaag atggaatggc aattgctcat ggagcaatct ataagattcg tgagctgggt 479

<210> 49584
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F5

<400> 49584

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tgtattttctt cattttgatg tgtaagaact acaaaaaagt ggagatgttc tacgaaaaat  180
gaaatatgct aacttgcatt ctgttcaatg atttgaaagg taattgggtg atataagcag  240
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<210> 49585

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F6

<400> 49585

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ttgtatgcct ataacaaatg agaacgaagc cgttgctcct gaagcacgcg ctggagaaga  180
agggctcaga tcgtagatct cggattcttg gcctgggtca acacaggtcc tcaatttgac  240
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<210> 49586

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-F7

<400> 49586

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ataacgagct tggaactctt ctgcctcatt gggactcttg tacaatgtct ggggtgtgtga  180
cttatatata tataaagttg taacatgtaa tactggagga tacaatcttt aacaaacagg  240
gtggcggttg ttccaaaaaa acaactgctc gaatctaaac taggtggccg taaaccaata  300

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cgttgagcac ccaatgaact gggcgggtcgt tatagatggg cctgccttac gta 353

<210> 49587
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G1

<400> 49587

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act 183

<210> 49588
<211> 535
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-011-Q1-K1-G2

<400> 49588

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gcttgagaat ctggaaacttt tgtagcccat caacttgggt tcccagaaac catgtaataa 480
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<210> 49589
<211> 341
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-G5

<400> 49589

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tctctcgcct acatcacggc gcagctcaca actttcactt cgtcgctaac tatcataata  180
tccacttccc tgccaatatt aaggtgacga atgaccacgc ataactgccg gtcgatgacc  240
agggctatat tctagagaat gaagccctga accatgcact ggaaaacctt aagacctaac  300
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<210> 49590

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-011-Q1-K1-H3

<400> 49590

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aaaacagaat attagcatta atctatagtt aattaaagta tgtaaatgcg cctgtttttt  180
gttgtgtact gtaatcatct gagttgggtt tgtgaaattt tcgtagaaag aatgaatgtg  240
agatacagaa aatgtaatgc cgtggtatat gcgtatggaa cgatgtagta tcttttatgg  300
ttcaaaaaaa aaaacggac                               319

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<210> 49591

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-A1

<400> 49591

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agtggaacag ttatatgaag tgaacgtgcg acatgcagct gtgtgtctcg acattcgaca 180
atgatcagca cctgggttaca tgcgtgatct gcagatcagt ctggttgaga tcatcggagc 240
aataaaagtg tcatccaagg cattttttct ttcttgttgc tcttttgtgt ctttcaatgt 300
tgtagggtag aatgttgtag cagcaaagt tagttacatg gtgaatcgac attggggggcc 360
ttggattggg 370

<210> 49592
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-A12

<400> 49592

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tggaccccca ggacgtggac ctggtgcccg cggcggaccg ggagcgaggc atcacgccgg 180
aagagtcccg cctcatcaag atccatatgt cgttccatat ctggaggcta gcacagcagg 240
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ggaagagcat gtcagactat gatcctcggt tggttgcacc tacttggttg tatttggtcat 360
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gtggttccga tgataagtat cggtttgaaa ataaggatat tcttgaaatg aaatg 475

<210> 49593
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-B8

<400> 49593

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cgttcattca tatagatctt acatcgaca acctctgat ttctgctgat aaagccatta 180
ctattgctga ctt 193

<210> 49596
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-D7

<400> 49596

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tgttacatac aaggagcagc aggaacatat ctgcctcttt cattcaacaa cagctgatcg  180
acaaataaaa atcaactctg ttgtagcctt gtaggatgaa ctcaagtggc caatatttgg  240
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 <211> 433
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 <213> Zea mays

<223> unsure at all n locations
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<400> 49597

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gccggggata ggcacctagg gttctccaag tgggccgaga agctccgtgg cgggtgcctca  180
ggtgaaaaag atgctcagca taagagaaag ctaactagca aatggaagcc caccacaaaa  240
ggcacactga agagaacctt ccgagtacga tcaacggatg anggaaagcg gatccctgat  300
gagattgctt cagttctgtc ccaagatgat cattntgtgg atgcttcgtc tcacaagggt  360
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<213> Zea mays
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 gggaatggag gagatcatca cctgtcttgt cgaccctaga tatgtccaaa ctgcagggaa 180
 attaaatctt catgtgtaat tgtgctcatt ctgtttcaat catctcaaca tccgatcatg 240
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 <211> 387
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 <400> 49599
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 tgcttcgtcg gcggcctcgc ctgggccacg gacgaccact ccctccacaa cgccttcagc 180
 acctacggcg aggtcctcga gtccaagatc atcctcgatc gggagacgca gaggtcccgc 240
 ggcttcgggt tcgtcacctt ctccacggag gaggcgatgc ggaacgcat cgagggcatg 300
 aacggcaagg agctggacgg ccgcaacatc accgtcaacg aggcccagtc ccgcggccgc 360
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<210> 49600
 <211> 483
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-012-Q1-K1-E8
 <400> 49600
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ttgactctcg taaaggtctt cttcagccat tcaagaaacc ttgggcgcat gagcacgagc 240
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ggcctatcat cttttcactg tcaaacccaa cctcgcatte tgaatgcact gcttaacaag 420
catatacatg gagtcaagge cgttcaatct ttgtcagtgg cagtccattt gccccgtgg 480
agt 483

<210> 49601
<211> 69
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-012-Q1-K1-E9
<400> 49601

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nntccgccc 69

<210> 49602
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-012-Q1-K1-F1
<400> 49602

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taggcgaggc gaaggagagg caaggcggtg cggcgggcaa gatgtttgac gatcaagacc 180
tgggcttctt tgccaatttc ctgggcatct tcatctttgt cttgggttatt gcgtaccact 240
tcgtgatggc agaccetaag tacgaatgaa actgatgtcc tctagtgcaa agatcctatt 300
atctgcaggc cgaaataggg ctatactgtt agctaagtct attgagatcg cttgacactt 360
tgagtgcata tcatggaagc tggacatgca gttcctggca ttttgggttt g 411

<210> 49603
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-012-Q1-K1-F12

 <400> 49603

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 cacacagacg aaatcgccaa aaaaaccaat atgaagacga tgctcaccat aaaagcagtt 180
 gcctattgat cgacgaagct ttagatactc aaaacaaaca aaccaccacc tgggcatgct 240
 ttttcaccac ttgtaacaat ccaaagcact atggatcaaa tatccacctt ctgcaagccg 300
 atcaattata catacacaac aaacagctac ttgtacctga tcaacgaaaa actcgatttt 360
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<210> 49604
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-012-Q1-K1-F3

 <400> 49604

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 aagggtgatg ccaaggccca ggccttgaag gtggccaagg ctgtgaagtc tggggcaggc 180
 aagaagaaga ccaagaagat tcgcacatct gtaacatttc accagcccaa gaccctgaag 240
 aaggccaggg acccgaagta cccaagaatc agcactactg gaagaaacaa gcttgatcag 300
 taccaaattc tcaagtaccc cctcaccaca gaatctgcaa tgaagaagat tgaagataac 360
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 aagaagatgt atgacattca agcaaag 447

<210> 49605
 <211> 400

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-012-Q1-K1-F4
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 cggaagacag gaatgattgc gtcgaaagct gctgcatgag ggaaaggcct tagactgcag 180
 gtctgatcaa ctacggtggt tggcgtggtg agagatctgc gagcgggtatc gaactagtgg 240
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 aatgcactag catagcaggt tttgcggttt gggaagtggga 400

<210> 49606
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-012-Q1-K1-F5
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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tttaaaaaaaa aaaaaagaaa aaaaaaaaaat 120
 aaaaaataaa aaaaaaaaaa attaaaaaaaa aaaatctacc ccacctttcc ttctccctt 180
 tttaaagttt ctatttttac tttcctttcc ttccaacttc ttactttttt tttattttcc 240
 cttaatttaa ttttatttcc cctcttttta aaccttttta attggaaaac cttttctttt 300
 acccaattta ttccctttca accccttccc ctttttccca ttttctttt tttcaaatat 360
 cccttcactt ttcccttttc caaacatttc cccatcttta ttttcaattt gtactttcct 420
 ttttaactttt cttttaccct ttcttttttg ttttttcccc c 461

<210> 49607
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-012-Q1-K1-F6

<400> 49607

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tgacggcgtc cagagggggcc tcattggtga gatcatcagc cgttttgaga agaagggctt 180

ctacctcaag gccttgaagc ttgtgaacgt ggagaggtcg tttgctgaga agcactacgc 240

cgatctcgcc tccaagccct tcttccaggg cctcgtggac tacatcatct ctggccctgt 300

ggtggccatg gtctgggaag gcaagagcgt cgtcacaact ggccgcaaga tcattggcgc 360

caccaacccc ctggcttctg agcccggcac catccgtggc gactttgctg tcgacatttg 420

gcagaatgtc attca 435

<210> 49608

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-F7

<400> 49608

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agacccggcg gtacctggag atgctgtacg cgctcaagta ccgcaccatg gcgagcaccg 180

tgccgctggc cgtggaggga gagccctcca gcaagtgatg cgcgacggcg gccacagacc 240

tgatcgatcg atgagcgaga gggagcactc ggagtgtcgt gtcttttccc ttgccatttc 300

tttctttatt tcccttcccg gaggcgaaaa aaagagtctg cttttgctac gcggcggtcg 360

ttcgttgctg ctctttgctt caagagttaa atttacctac cttgtcaagg tcttgatcca 420

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-G1

<400> 49609

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 ccagtgtctg gtggacagcc tcacgtaatc cttacttttc aaactatacc attgcgcaat 300
 ttaagcacat acttgagtg aaaccagcac cacagaatgc actaagcaat gttcctgtca 360
 aaacttattc aagatcactg gaacttccaa aagagtttga cgcttgatct gaatgggccc 420
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<210> 49610
 <211> 311
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-012-Q1-K1-G4
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 ctgccagtac atcctgatca cactgatcac atccatcact gcatatacag atgtgcttac 240
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 atcacactag c 311

<210> 49611
 <211> 310
 <212> DNA
 <213> Zea mays
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 <400> 49611

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 tgctgcttgc gtcctccta gcatatgctg atgccgacat tgaagtactt ggctttaata 180

655760-544660

ttactcacia tctcatgaga acactctagc aggaccttat catgcactga cataaccgac 240
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gacatcacat 310

<210> 49612
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-G7

<400> 49612

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aagcgccgga aaatgaggca gagatctaag taggcgcac ttgtgaccga ggatggcgag 240
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tgctgtagac gtaggcgatg taaaccgtcc tttttgatta attctagtat gttctgagac 360
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gcactcgaat at 432

<210> 49613
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-G8

<400> 49613

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ccttcttcgc gtttttggct gagtttaggc cgcaatacct ggagaagcac cctgagctca 180
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gggagaagtg gcgctctatg tcggatgacg ataatgcgaa atatggcggg agcaagaaac 360

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gggaaggaga tgacacacaa tgttctaaca ag 452

<210> 49614
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-G9

<400> 49614

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ggccatctgg gcgtgccagg tgggtgtcat gggcgccgtc gagggtacc gcgtcgccgg 180
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cctcgagaac ctgcgcgacc acatcgccga ccccgtaac aacaacgctt gggcttacgc 420
caccaacttc gtccccggca agtgagcgag ggcattgatgc ttgcatgcgt gtaccgg 477

<210> 49615
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-012-Q1-K1-H4

<400> 49615

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gcatat

426

<210> 49616
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-013-Q1-K1-A10

 <400> 49616

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 gtagatagaa acaaggggag aaggggaaaa aagtacttgt atttcttttg ttccatgggtg 180
 gtgggtgggtg tgggcggctc agcctcgtga gtgcagtatt gggcaaaccg gaggctgcgg 240
 caaccttggtg cagttcggcc acgaatatac tagggaagat cgcgaccaat caatcaatcg 300
 atgaccgagt tcaattgttc agcattcttt attagttttg gtgggtggat acttcaatcg 360
 gtgagccgaa cagacagttg ttttgagtat gaattgctct gcatctgcaa agttgttgtt 420
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<210> 49617
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-013-Q1-K1-B9

 <400> 49617

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 aggagccgga atgggtcggca agatcacctg caactaatta agctagctat cgatcgatat 240
 ccattcatgt attagctgtt gcttctctgt ttgtactccg ccgatctgtc catctctaca 300
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<210> 49618
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D5

<400> 49618

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tgccaaccca atcgctcagct ttggaatgaa gcgtgccatt gatgatatac tgaaatgagt 180
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gtttgtagcc aagggtggtag atcatacagt ttgagatgag gacactatgt atactgtttg 360
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tatta 425

<210> 49619
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-013-Q1-K1-D7

<400> 49619

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ttgccaactc aaaatgcaag cgctacttcc acaaccgcct gaagcctgca aagcttacct 180
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<210> 49620
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-A11

<400> 49620

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acaagcagca cctcggcgag gccggcgcca tcgccgccgg cgccttcgca ctctacgaga 300
agcacgagggc gaagaaggac cccgagcacg cgcacaggca caagatcacg g 351

<210> 49623
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-B6

<400> 49623

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cggaggcgga actggcttcg aggggtggtt tggaaatcca tttgaggata tttttggtgg 180
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cagcaaaacg gtcaccttcc aaacgtctgt aacatgtgaa atctgtggtg gagccggtgt 360
gccttctgga accacacctg gaacatgtct atcttgcacg ggttcaagggt ttatat 416

<210> 49624
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-C8

<400> 49624

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accagaacca gaaccaaagc cagagcctaa acctgaacca aaaccgaaac cagaaccgga 180
gccacaacca aagccagagc ctaagcctga tccaaaacca gagcctaaac ccgaacccaa 240
accagagccc caacccaaac cagaacctaa gcccgaaacca aaaccacagc cagaacctaa 300
gcccagagccc aaaccaaagc ctgacccttc acacattcca ccagca 346

<210> 49625
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-014-Q1-K1-D9

<400> 49625

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 anagaagaac 370

<210> 49626
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F12

<400> 49626

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<210> 49627
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-014-Q1-K1-F9

<400> 49627

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aactacaaac gtcaaccagc acagcacgtg gtcaataggc gaaggcatca aaggggggtg 120
tgctgggaag cgTTggtcaa aaggtgccct ttactatTTT ctaattcaag tgcagtgggt 180
tctttatTTT ttggtaaGaa taatatgTTg gtttcttgta ttgctgaggc aaatagacac 240
gttttagtggT agttctgtaa gtttgTTaat gtactgactt taacatgaga tggattctgc 300
atTTTtgtat agatcaaata gctgccgcat gcaaaa 336

<210> 49628

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B3

<400> 49628

cccacgcgtc cgcccactcg tccgcggacg cgtgggtgcc aggctggcat gggcgaggac 60
agccctgtgt ctgtgccgct gctcatctct cggctctaaa agcagacgag tagtagttgt 120
gcatgggatg gatcggcacc tgagagtacg ctgggacatc ccactgattg ccggacggaa 180
gcatggagga agaagctccc ctgcttctgc ttgtcctcgg catgaggcat gtgcctggcg 240
ttacttgtgg cgtgccaaagt gccatatttc cctaaactta ttctgcgtgg gaacctcta 300
ttatgtatgt atactgtgaa tttgtgactg ttcaggtaac acgagttatc gtgacatctt 360
cgtagagaaa gataccgtat gtatgatgta tgtatgatat acatatgata 410

<210> 49629

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-B8

<400> 49629

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aacaagtgat cacctatgac tgtgggacca aaaaagctta tatctgcagc ttatccatgc 120

tacaattatt acttctatta agaaaaagcg ggctctttta aggatcaatt tacgtcctca 180
 caaaacgaga attgcatgtc aaaaggggtac ccaatttgat taaaaagtcg acctttt 237

<210> 49630
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C12

<400> 49630

gggggcttat ttggaacagt tttttacaca aaactcctga cctgtaaata aatttttgaa 60
 aaccgtatcc ggtgggtgat ccatgtatta atagagtaat aatgttacta tgttcatcca 120
 aatctcaaag acgtgatggg tgtgttgaaa aaacagcttg aatcacttgc ttaaaaaaaaa 180
 aaatac 186

<210> 49631
 <211> 260
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-C5

<400> 49631

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 ctcggcggcc tcggcgggct cttcgccaag aaaagcagct gaacgtgcca agtgtggcgt 120
 ggtttatgga ttgtcgaact caaagctgga tttggctttt gagggggaaa tggttgcgca 180
 tatatatattg tggacgtgtg gtggtgtgac cagtgatctt tgatgtcata atgtgatata 240
 ctctacttcc agctgcaaaa 260

<210> 49632
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-D9

<400> 49632

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ttagtcttgc gtcctatct gacgacctta tcaatgccac tctgatatta tatgctttta 120
 atgttgcgtt tactgatttc gatacactat gtttattgac gtcctatggg acattctcag 180
 ccagatactg tcgccgcttc aaaatcctgg ccgagagggt cacggcgccg gctcgcatcc 240
 gtccttgccc tggtgcacc ttgcttattg tagttgaaat ggtgcacgtg atgtatgcat 300
 tgtaatcata tttccttaga ctgtcaaaa 329

<210> 49633
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E10

<400> 49633

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 tagctttcca tctaaccact ttcagagact atcagtgggt atcaggtcct acctaaatgc 120
 tgaaatactt tctacagatg aactcatac aattctagac catgatctac tatacatgaa 180
 tgatgacttg acaaacatgc ttttaaggcac ttctcaaattc tcgccatctt aaaagctgct 240
 tgacaatata tcaaaagctc cagaacaaac ttctgctgac tgatatttca ggactcaaca 300
 ctctctacat aaagatgact aggatcttgc tccagaatca cttaacagc ctaaatcata 360
 ttctgactat gcaagctcc 379

<210> 49634
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E8

<400> 49634

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 gtgcaagccc gatgcggggg aaaggaatac ttacgacgcg ctggaagtgt tagtcctcct 120
 tgagacggat cgcaaattggc acgttcttac aggtttcgtg catcgctcga ttaattagca 180
 catagagtgc ttgcaattac agccagtacg aggtcatgag cttcaagctg gtccaacatc 240
 acagcacgac acgcttactt actacatgaa ggggataacc atatatagcg tgcctgcatt 300

aacatgctta agaatgacaa

320

<210> 49635
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-E9

<400> 49635

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aggctaacaa gggttgtcag gtcctacgca aatgcagttc taagtctggt tgaagaccct 120
gagaagattc tagaccaggc agttctggag atgaatgatg acttgacaaa gatgcggcag 180
gccactgcac aggtcttggc atctcaaaag cggcttgaga ataaatctaa agctgcagaa 240
caagcttctg ctgattggta tcggagggct caacttgctc ttcaaaaggg tgacgaggat 300
cttgctcgtg aagcccttaa gcggcgtaaa tcatatgctg acaatgcaag ctcttaaga 360
tcccagcttg atcagcagaa ggggtgtagtt gaaaatctga tttcaaatac ccggcttctt 420
ga 422

<210> 49636
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-015-Q1-K1-F4

<400> 49636

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gggtgggcac ttgaggttga tgagctgaag aaacaacttg aggaggctcg atctaagggc 120
atcagtgtca gggcgcttgc tgtcataaat ccagcaaata caccaggaca ggtccttacc 180
gaggaaaacc agatgaaaat tgttgaattc tgcaagattg aaaggctcgt tcttctcgcg 240
gatgaggtta accaagaaaa catatatgtc gaagacaagc aattgcactc gttcaaaaaa 300
atcgcacggt cgctgggata cactgatgac gaccttcctt tggatcgtt ccagtcgatt 360
tctaaaggct actatggaga atgtggaaag cgaggtggtt acatggagat aactgggttc 420
agtcctcaag tacgggacca aatctacaag atggcatc 458

<210> 49637
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-015-Q1-K1-F7

 <400> 49637

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 cggattgtat tgtctaaatt ttcttttagtc ttatagcttg ttagattgga tcatatgcat 120
 tgaaaccaat atataagaat tgcttttaaaa aaaacaaaga aaaagctata cattcttatt 180
 aatgaaatct acaaatacca tcgatgatat taaaaaaaga tacatgaaaa acagataaca 240
 caatcaaagg gcggcccttc taaagcacc aagtttacgt cc 282

<210> 49638
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-015-Q1-K1-G10

 <400> 49638

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 gccgccgact cctacggcat cgccgtcgac tacggccgcy cgctcgcgct ccccggggtc 120
 tgccgcgtcg ccacaccgtc cgtctccacc cggaccggct gatcgagggtg aaggtcacgg 180
 cggacaacag cagctgcac cgtccatct cttcatcta catcgagacc gatggcaaac 240
 cgtacgagga ggggccatgg ggtttcggcc atgctggcac ggagtacaag attgatctgt 300
 gcaggttcga cgagagcttg acggagatct ccgggaccac gggcccagcc tacaacattg 360
 acaatctggt caagtctctc aaatttgtea gcaacaaacy tacttacgga ccgtacggca 420
 gggacgaggg caccctgttc cgtgtc 446

<210> 49639
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-016-Q1-K1-A2

<400> 49639

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cggegcctcc ctggccagcc gcccggcgtt ctccaccagc ttcacgcggg gcagccgggt 120

gtcggcgagg aacccccctga tgagcaggaa cctggagagg aatggcagga tcacctgcat 180

gacgtttccc cgggactggc tgcggaggga cctgagcgtc atcggcttcg ggctcatcgg 240

ctggatgggg ccgtccagcg tcccggccat caacggcaac agcctcacgg ggctcttctt 300

ctccagcatc ggccaggagc tggcccactt cccacgccc ccgcccgtca cctcccagtt 360

ctggctgtgg ctagtgacgt ggcacctggg cctgttcac gtgctcacct tcggccagat 420

cggattca 428

<210> 49640

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-A3

<400> 49640

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gcctggccga cgaccccgag gccttcgcc agctcaaggt gaaggagctc aagaacggcc 120

gcctcgccat gttttgcatg ttcggcttct tcgtccaggc catcgtcacc ggcaagggcc 180

cgctcgagaa cctcgctgac cacatcgctg acccaggcaa caacaacgca tgggcctacg 240

ccaccaactt cgccccggc aactaagctt aacagctatg ctatgca 287

<210> 49641

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-B4

<400> 49641

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gccactcag tttcggagtt gtcccctgtg cgtgtgtgaa gctgctatat tagagttact 180

ttttgtctaa agtctgaaca ttttcgaaga atttgaatat ctgaacattt gaatgtttgt 240
gctgagtttt tcaaagaatt tgaatatctg aacaattgaa tatctcactt gaacgttata 300
tggcttaaaa a 311

<210> 49642
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-C1

<400> 49642

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gaacaacacg tactatcctc atattggcgt taagggaacta tcttcaagga cgcaaggcaa 120
actgaatcct acaagctccg gacgcattag ctcctaattc acattcagga tccagggcac 180
tctacgtgta acttcactac gcatgatgca acagatactg gcaataattc tcgaccattg 240
acatcagcag atgtcatttg gacgaggatg cactcataga ctactactcc tctgactatt 300
acttgcaaag cttaccctgt ataaactcct gtgaagatca agtaagttac t 351

<210> 49643
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-D1

<400> 49643

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gatgcaggtc atcggcaagt ccatgcagtc catcgtcaag tcgctcgact ccgcgctcgc 120
caccgggaac ctccagaaga tgtccgagac catggacaat ttcgagcgcc agttcgtcaa 180
catggaggtc caggccgagt tcatggaggg cgccatggcc ggctccacct ccctctccac 240
gcccagagacc gaggtcaaca gcctcatgca gcaggtcgcg gacgactacg ggctcgaggt 300
ctccgtcgggt ctgccgcagg cagccgcgca cgccatccct gccgccaagg ataaggagaa 360
agtcgacgag gatga 375

<210> 49644

<211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-016-Q1-K1-E11

 <400> 49644

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 gacgatctca tcaactgagcg aggcgatctg ggcgtcgagc gccttaacag cctcctcctt 180
 ctgcgccctg aggttggcga ggcgctttac gagctcgcc ttcacacggc tgcgcccctc 240
 gttcagcttg gcctccagct tcgcggtggt ctcttcttc atcttgtaa gcgccgcctc 300
 gatctcgcg cgcgccatct tcatgatggc cgccgcctgg tccttcagct gcttc 355

<210> 49645
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-016-Q1-K1-F12

 <400> 49645

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 cgactcctac ggcacgcgcg tcgactacgg ccgcgcgctc gcgctccccg gggctctgccg 120
 cgtcgccaca ccgcccgtct ccacctgcac agccctcgga tatcacgtcc gcgtgggccc 180
 agctgcggcg cccatgtcag ggtctccctc gcccatgtca ggcattcttc cctccgggga 240
 gggccacag ttcccaggaa catcgccgac cgctcgccg ccgtcctcga ccagcaccgc 300
 ggcgcgccgc tccttcgccg gcgcgggcag ccacctcgtg gccctcgcca tgctgccgtt 360
 ggccgcccgc gtcagcggga tgctctaagg tcgacgactc ctctgtctcc gcatgcattg 420
 cgcagctgga cattgttgcg tagtata 447

<210> 49646
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-016-Q1-K1-F2

<400> 49646

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atcttgggct ttggaatagt attgttaatg acattttttt ttccggttgt gtttctggag 120

taaatcggtg aacgacaacg cttcaggatg tctggatgtg gattctgagt agaccttgaa 180

gccttgatga agcagccagt cttggaaaga aagttccatt aagctatttt tgttgctgtc 240

tacagctctc tcggtgacgg taagcgcgat ttggtggttt aatgttttag tatactctgag 300

ccgaactgta gactgttgct tctgtgagaa acgaaaaaga aatat 345

<210> 49647

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-G11

<400> 49647

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actgtacatc gtccctaatca tactgggcgt tcgcgggagc tacctgatgg ccatcagctt 120

ctagaacaat cccttctatt aattgctcat catcgacatc tagctctca ctaccgttg 180

gtcctaattg gtcactgtcc ccatcacgct ctaccactag cttttccacg tatacctctt 240

atattttacaa tcttacatgc tcgttctact aactgctgca cctgtgcttt cacattcctg 300

ctgtctagat gatccaagct tacactcgcg aacattcgac ttcatatctc ttttatagaa 360

tcgaattgat ccaatttcac ttaacgaaac tttata 396

<210> 49648

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-016-Q1-K1-G3

<400> 49648

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cctcactaca ttcacacacc tacaggctta cagctactg catcctggaa tcagtacaat 120

tcaccacctt cgcaccatcc taagcatcat ccatcatcaa ctaataccac aaccgctact 180

<210> 49651
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-A3

<400> 49651

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tttcatttac agctggaact cactggaaga ggaagaagac acctcgaagc aaacctgcga 180
cagccagggt aacctcgtgc taactgggcc atcaatggcc acctcggcag aaagtccaat 240
tgccttcacc ttctacctcc atgatggcag cccgcaagcc ggagaagccg ctgaggacga 300
cgaggacatc gggaggataa tctgcgactg catcggcgac gacttctcca actacaacag 360
ggccatagtc gagactgtcc aaatgggcta tggcctcgct gaagtgatct atgccgtgct 420
gaacaacggc gtccaaggcc gggtcgc 447

<210> 49652
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B1

<400> 49652

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cagctatata gatgagtgtt ttaaaacata ttacagtgtc tgtctgtgtc tgtcaaccac 120
aggaaaaaaa aggagaaaga actacagagg ttcccgccaa ccgaaacgca caaaaatagg 180
gtccgttcat atatgtatcg gagatttgga gccaccaccg ttgatccgca ggtctgagtg 240
actgaagggg acagggccaa cattcccgct tggttccttg agacagtagc agctatagct 300
tcgagggcga ggatggacgc ctcaagccgg cctcagactt cgagcggg 348

<210> 49653
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B2

<400> 49653
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 cttcaataag gaactaaaaa ttgggcaaag gatgatgaca atatctacag ttggtgttcc 240
 aaatacaata aaaatgctag catctcacia gcttcagtca acgctggcag tcagtctgca 300
 tgccccaaat cagaagctgc gggagacgat tggttcctagc gccaaagtctt accccttggg 360
 agcactaatg gatgactgca agagttactt ccttgaaact gggcgcaggg tacccttcga 420
 gtacactctg ctagctggga ttaacgatga aa 452

<210> 49654
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-B4

<400> 49654
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 attgtgagag tacctaacct caaggtgggt tcggttcttc ttggctgtgc cttcctgtat 180
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 tttgatccat ggggtggata cagcatcatt ggctttgggt atacccttct tcctgggtctt 360
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 tttttgtggg caatgggtggc ctatggctct 450

<210> 49655
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-C10

<400> 49655

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tagcaagcag gagcagcaag gatgccgggt ggccacgggc tgcgctcgcg gacgcgcgac 120
ctgttcgcgc gcccctttcg caagaaaggc tacattccgg tcaacaacta acttcggacc 180
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<210> 49656
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-017-Q1-K1-C3

<400> 49656

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cgatgctcgt ggcgatgacc gatgagaaaa cggatcccat ggtaaagcct tcgtgggggg 120
gtacatatga agatcgctcg acagatcgat agacatcagc tgatacgaga tgtactacga 180
gctgcatctc gagctcgagc tggatatgcca tctggaaggc cctgtggaag accgttcacg 240
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<210> 49657
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-017-Q1-K1-C4

<400> 49657

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gaccacaggg agcgtcacag cactaggcaa ctcaacaaaa atcctctagc ttgctgatgc 180
gaaactctgc atctaccatg tgagctagtc tgtgtttaac agactgccta ttgcagtcac 240

gactctgaat aacatacaga ctcaactggta tctcacactg ctgctgacta gacctctgat 300
 gtctacgaag cgtgtgagac ttccgtatat ggacaagctt ataaacctgt aatcaagatc 360
 ctaacagc 368

<210> 49658
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-017-Q1-K1-C8
 <400> 49658

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 cgctcgtgga cgagcgcgatg tccacggagg gcaccgggct gagcctcggg ctcagcaaca 120
 acctgctggg gtggatcctc ctgggggtct tcggcctcat ctggtcctc tacaccatct 180
 acacctctga cctcgacgag gacgaggagt ccgggtggcct ctcgctctag atccaccctc 240
 tctgttaat gatctgaatg taaacatggg ggcggtcatc ggtgtaaatt tagacatggc 300
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 agcaatgcaa tagcaacttt gcgagaaaaa 390

<210> 49659
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-017-Q1-K1-D1
 <400> 49659

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 tcatccagac cctgtcgggt tgagtcgacg gtccatcagg tcatgtggc cgagctgaaa 120
 ggccgagact cgaagacagt tcgtgtgatg cgttcttaat cgactgaggg ctaaggaatg 180
 tgacgtactg gtatatgtac attagttgaa gcggaggcta taaagggtgt agagattggt 240
 tcatcagtgt atatcatctg tcccgatggg ttttgttttg tgcttttcac gattcattgt 300
 ggaagcacat gtattattag tacaagaatt gctagtagat atataggctt ataattaagc 360
 acgacttcta aaacctcaac gtacgtatgt gaaagcccca tatgatggta aacaaaagga 420

aaatacaaca ttacatttgt atatg

445

<210> 49660
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-E3

<400> 49660

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gcgcggcaag gagttcacgc ccatggcgag caccggcatg gcgtcggcca cctcgcgggt 120
catgctggcc gcgggctg ccaactgccag tagcggcagc ggccgtgtca gcttcgcctc 180
ggcgcccaac cggtttggca ggaggcttgt ggtccgggcc gatgaggagt ccccggcaga 240
gccggcgccc acggcggaag gggagggcgc cgtggccacc aagccaagg ccgagaagcc 300
gccgccgatc gggcccaaga ggggcgccaa ggtgaagatc ctgaggcggg agtcctactg 360
gtacaacggg atcggcaacg tcgtcacctg cgatcaggat cctaacaccc gttaccgggt 420
ggtggtgcgg ttcaacaagg tgaactacgc cggcgtgtct accaacaact atg 473

<210> 49661
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-E4

<400> 49661

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tgtatcacag accacagatg aagtgaaggc tgggacacct gccactgaaa aggcaggatca 120
agttgagaaa gtcgtttcag gtaaaggaaa ggaaaacaga gggaaagaca tcgtgagaaa 180
ctcatacaaa acagaacttg caaggcaa atttgtcagt ttcatgtga agtcagtga 240
tgacagttta ggttccgccc aagctgaacc agagaggaag ccaagtggat cagatgaagc 300
tagtaataaa cagagcagca acttagtcaa gaatgcttct ggtcgcaaag attcagataa 360
acaagagaaa tccatggagg ttcccaagg cctgaaggat acagagggat ttacagtcgt 420
ttcaaaacgt cgaaggcggc cccagccatt catg 454

<210> 49662
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-017-Q1-K1-F10

<400> 49662

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 ttcaagggcg ccaggaaagg agtcgagaag gccgtcgtct ggttcaacgt cgcatgatgc 120
 agtaatatgg gttcttcgat gggatgggat gcacgcacta cgtaaagagc ttggctaggc 180
 caagcctggc ttaacaccct tgggtgggtcc ttcgactgga catgagaacc aagacttaga 240
 actttgntcc gtttaaaa 258

<210> 49663
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-017-Q1-K1-F2

<400> 49663

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 gggtcgatga tcctgattgg ccggagcatc aatcaggatg cacgcagagc gaaatcccaa 180
 agcccactcc acctgctgat cgggtgtacta cgcccgcacac ccagccgacg ttattactgg 240
 ctacagtttt gcgtggctgt ctggcgctcg aaaacagagg aagggttttg catcctgact 300
 acagttacta catcaagcgg agttccttca gcttattcat gtcacacgga cactactcta 360
 cactacaggg atatgttagt atttcttttt ttatatgtat tttttttggg gtaaaaaa 417

<210> 49664
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-017-Q1-K1-F3

<400> 49664

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ggagctacca aggcagctcc ggcgcctgat tattgaaggc atcgtcttct cacgacagcc 180

tcgatggatc aaccgctcct gtctgccacg cctctactcc ttatatctga tgggtgcacgc 240

tgttgaagca caggacctag ataatctagc gaggttgcca gagctccagt acctcatgct 300

at ttggtttc agctggcctc caaggtatac tg ttggccca gacgacttca ggaatctaag 360

gttctgcgaa gtgggcacaa cgttcgagtt tcgtaagggc gccatgccaa ggcttgaagt 420

gctgcgattt ggagtttgtg tgccgttcga gcagttccca acgaaggatg tgatcc 476

<210> 49665

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-F4

<400> 49665

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gagcggggccc agcggagcat tgtgtgccag gcggcgagca gcatctccgc cgaccgcgtc 120

cccacatgg agaagcggaa gctgatgaac ctctctctcc tcggcgccat ctcgttgccc 180

accgtcggca tggtcgtccc ctacggcgcc ttcttcgtcc ctgccggctc cgggaacgcc 240

ggcggcgggga cctacgcgaa ggacaagctg ggcaacgaca tcacggtgga ggcgtggctc 300

aacacgcacg gtcccaacga ccgcacgctc gcgcaggggc tcaaggggtga cccacgtac 360

ctgggggtgg agcaggacaa gacgctggcc acctacggga tcaacgccgt gtgcactcac 420

ctcggctgcg tcgtgccgtg gaa 443

<210> 49666

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-G10

<400> 49666

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H10

<400> 49669

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 ccgcgccgtc gtggacgccg gcgccgtcgt cggcgggcgc ggggcctaaa agcggccgag 120
 gctctgggtct tgctggggct tgccctgggc tgggaccgcg ccggggcgct tgctgctgtc 180
 gggccaagcc agccacgcca accccatggc gttggcacgc ctggcaatgg ctaatggggg 240
 t 241

<210> 49670

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H2

<400> 49670

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 atggtcttgc tactaagggtt gagaagtccc gcaagcaaata gaaagagcgg aagaacaggg 180
 ccaagaagat ccgtggtgtc aagaagacca aggctggtga cgccaagaag aagtaaacag 240
 tcatttatat ttctgtatta ctgtcctgaa ctctgggtgg tcgtctagtt gcaatgtcat 300
 aattatggtc gtgttagggtt ttgttccgca ctacagcagta agtgaagttt tgtaattcct 360
 ggatgtgaac ctaccgggat tggctgtagc atgttgtgag atgagaaggc tattttgtca 420
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<210> 49671

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H4

<400> 49671

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gccttcgtat agacgtccca cgccgccggc cggcccgctc tgctcgtctg ctcttgtegc 120
 cgctgcggcc acgtcgcttg cctctgctac tgctgctgcc gtcgccgtca ttaatgcttt 180
 gttgatttct ctcttggtcg agacaacgca cgttccttca tcacttcact gttgagtatt 240
 tgcattgggt gtgtatgtat cggattctgc tttgcgtgat cacggtacca tatttattta 300
 tcggactcct cgttcatcag gtggagggtc tcgtcatgaa taacgatgaa atctccattt 360
 caccgtccaa aaaacatgaa c 381

<210> 49672
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-017-Q1-K1-H9

<400> 49672
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 tgtatccctg aaagagcttt tgacagggtt cagtttgtga acttcactgg tattatgtca 120
 acaagtaagg atatgtcaaa gaaggaggct gcatttgccc ttgcagctct tatggaaata 180
 ctttctcagt ataaagcaac gcaaggcctt cgacctccag aaaagcaagc acaaaggatt 240
 ggctctccta ggattcttcc tcctccaaat aaagtctttg aaaatgataa tgccgccgtc 300
 gctgcttcgc accctcctca aactgcaagc tcgaaatcaa ctgggtattgg caaaagtgtc 360
 gctgacgagc aggtatgccc catatgtcta accaatccaa aggacatggc ttttcagtgt 420
 ggtcatctga catgtaagga atgtggccca acac 454

<210> 49673
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-A11

<400> 49673
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 ggcgacgccc tccccgacgg ccagctcggg tgggtcgacg agaacgacca gctgcagcag 120
 gtctccgtcc acgcgtcgc cgccggcaag aaggtcatcc tcttcggcgt ccccggcgcc 180

<211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-018-Q1-K1-C11

 <400> 49678

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 aaacatggga cctcgtgatg tgggtacggt gccacccatg aaataaaaaac ctagtgtgtg 180
 gtttgaaacc taaatTTTTT tttttctttt ttgcaccatg agagaggtag tggagtcata 240
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 aataaataaa gtgactgggt tccctatttc aaaa 334

<210> 49679
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-018-Q1-K1-C3

 <400> 49679

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 gctgcggcga cgccggcgac acggagaagg cgcgccccga gtgcctctgc tacatcatcc 120
 agcagacgca cacggggcgc aaccagggtgc agtcgctcgg actgcgcttc gaccgactca 180
 tggcgctccc cgccgcctgc aacctcccca actccaacgt ctgcgtctgc atcaccttgc 240
 tgaacctgaa gccggggtct ggggactacg ccctcttcgc caacgcctgc aagatcacgc 300
 cgtcagccgg cggcaaccct gcgagcgaca gcgccgctgg cagcggcgtc aagctccggg 360
 ctgggggtcag cggcggcgtc gcgctc 386

<210> 49680
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-018-Q1-K1-D3

 <400> 49680

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 ctaagcgact gcactctcct agtacgcacg gctgtacaac gactgggggg tctccaacta 120
 catgcggaca ctgttctaca actcgggtgat cttgttcact atcacactga tagtgctcaa 180
 cgtcatcacg ggcaaccctc tgatcaagtt caacaccgac cagatcccca tgaacatata 240
 gcatgtactg atgcaacacc cttaaaagaa cggtagctct gaattcgact accgagcaac 300
 atctatactc tgcagcccca catacgatcc aggaccttac agaattcata tgacgcagat 360
 actaagccat acac 374

<210> 49681
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-E3

<400> 49681

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 ccagccttat tgggaagccc ctactttgtc acggtagcca acatggcttg tgtctctaag 180
 aggacctcac acccgttatg ctcagccatg atggagacgt ccaagaagtc tttgaacata 240
 acacctgaag ctgtccagat cactcgtagg ttgaatgaaa acatataatg ctaatatacg 300
 ccctgtaaga cactggagcc tattactgag gtcagcaatg atcctgttct aggggttgac 360
 gctgacaacg tccacgactt ccgc 384

<210> 49682
 <211> 62
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-018-Q1-K1-F1

<400> 49682

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 cg 62

<210> 49683
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-018-Q1-K1-G12

<400> 49683

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 acggcaagga ttacatcgcc ctgaacgagg acctgagctc ctggaccgcg gcggacaccg 120
 cggctcagat caccacagcg aagtgggagg cggcccgtgt ggaggagcag gacagagcct 180
 acctggaggg cctgtgcgtg gagtcgctcc gcagatacct ggagaacggg aaggagacgc 240
 tgcagcgcg ggacccccca aagacacatg tgaccacca cccatctct gaccatgagg 300
 tcacctgag gtgctgggcc ctgngcttct accctgcgga gatcacactg acctggcagc 360
 gggatggcga ggaccaaact caggacaccg agcttgtgga gaccagacca gc 412

<210> 49684
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-018-Q1-K1-G3

<400> 49684

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 cgcagcgccg cagcagctga ggggtgaaggc ggaggggcgc cacagctgct gcacgccggc 180
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 caacggcatc agcccgagg acttcgagta cgggaagtat gacggacacc acacctat 360
 cgaaggccaa gacaagaagg gcttctggga ggatgtctcc gagggtacc aagaagctga 420
 gcctcctcag ggctttcaag cactcacc 448

<210> 49685
 <211> 532

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-018-Q1-K1-G4

<400> 49685
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 gtagtgctcg tatnggtagc aatggcttga taggggcttg ctgactggac ataggcgaca 180
 tttgcaaacc agctgttttag ccttacactc gtggctgtat cttgcttcgg gaacctctct 240
 tctttgggat ggaacctgtc cttagcccca tgcgttcac tcatgccac ttcgtacctg 300
 ctgattcgag caacgctacc aatcttgaag gagtagcttt gaaggctttc accaggcaaa 360
 tgtggcgtgc tgcgggcgat cctgggtccaa ggacgaatga gaggctgtga gcagcctata 420
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 gtcgcgagct gcgcgcgagg gttccccacc ctggattcaa caatgggcac tt 532

<210> 49686
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-G7

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 aagtgaagac gctgggagct gtctccctct agctaagcct atctagccct ctctcctcgt 120
 cgtggtggct ttgttgctga aggccgaagc cactggcttc tggtagagagg agagctagcc 180
 tatatcacc atctgttcag ttcagtccca gaggagctcg gatcttctcc taccgcactc 240
 actgtcgggt gctgcatcac ccattcttct catcgtgggt tggtagtcaa aagctagaaa 300
 catctttccg ctgagcgtga tccaaagcga agccccatt ccatgcaaag cgctgggtcg 360
 tgccgtgcgt ggggtggctc ctgctttata tacgcgttga gctcctgctt tggctgat 418

<210> 49687
 <211> 400
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-H11

<400> 49687

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tttctataac ttggcctgat ggatttagtc agatagcacc ttatgaccaa ttggaaatgc 180

tggagcgggtt ggtggaggct ccgagtcag cagcagcgtc tgcagtggcc tcgtcatgat 240

acagcagaaa gaatgttcag ttagcaaggg gcaagaaggc cgacttttag ctcccagaaa 300

atttatagct ctgctacaaa ttttgaaaga attttacagt actgtagaac catgctcatt 360

gaattttaa aaaaggcagc agctttcgtt cctcttaaaa 400

<210> 49688

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-H12

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gctaaactta tgtatctgcc aaaccaacgc agcgcacgaa ccgtccttca cgatatcagg 120

acaccacact taaactactc ggatatgcta tgtcaatgca atggactgtc cattacatta 180

ggaagtacat gcgaatcttg cactactcta actgatccat ctgtgcactt acaatcacga 240

cccatatcat agtcacttca ttatgacaca ttacctgaat gcactaatat aaaccatcta 300

tgaacaatat gaccacgtta ccaactttcg caagataaga gcacccgaat ctaacttcgc 360

gcaatatcta tgatacaagc tcaccctctc atacattca 399

<210> 49689

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-018-Q1-K1-H4

<400> 49689

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aataggatac ctggctcctg aatacgctgt gagggggcaa gtgacgaaga aatcggatat 120
ctatagtttc ggcgttttgc tactggaaat tgttgctggt agatgtaact acaacagtag 180
attgcctcag ggagaccagt ttctgcttga gaagacatgg gcatactacg tgcagggaaa 240
gctagagaag gtcatagacg ccgaagcagg ggaggacctg aacgtcgagg aggcattgccg 300
tttcttgaag gttggcctac tatgcgccca agacgcgatg aagctgcgtc cgaacatggc 360
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agccgtgat 429

<210> 49690
<211> 471
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-019-Q1-K1-A3
<400> 49690

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ccctgaagcg cggcgacgat aagtggctgg gctgggggtt caagctgatt gattctgtgg 120
attcctacat tccagtgccca cagcggcaga ccgacctccc gttcttactc gctgttgaag 180
atgtcttctc catcaccggg cgtggtacag ttgccactgg ccgtatcgag cgtggcaccg 240
tcaagattgg tgacacagtc gatatcgttg gaatccggga caccgggaac tgcaccgtga 300
ctggcgttga gatgttccag aagaccatgg acgatgccat ggctggagac aatgtcggac 360
tgctgctccg tggatgcag aaggatgaca ttgagagagg catggtgctg gcaaagcccc 420
gctctatcac accggacacc aagattgagg ctgttgtgta tgtgcttaaa a 471

<210> 49691
<211> 366
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-019-Q1-K1-A4
<400> 49691

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gcgcgcgact ccggcctgca gacgggtgac cccgccgggt tcaccctcgc cgacacgctg 120
gacctgcggcg ccgtcggcca catcctcggc gtcggcatcg tgctcgggct caagaacacc 180
ggcgccctcg accagatcat cggctagatc cctacgtcgc cgttggttaag atcagactca 240
gcagcctcga tcgcgcgcgc ggccggcagg tgcagggtgt gactttgtaa cgtgtgtgcg 300
tgcgtagctg tacattgcat ccatcttggt tccaatggac atatagctcc tgttgctcct 360
ctaaaa 366

<210> 49692

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-A8

<400> 49692

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gacccccgtt ggggtcactc gatgaactga tctgtgaatg tgggactgct ggctgcaaac 120
tcgcaaagca tttgcagatg actggaggat cagtectctc tgtacaagtt gtattaacat 180
cttctggtct catattgtgc tccagtgttg tacaatttag ggaaaagctt ggattaactt 240
gtaagttatc atgaatttgt tattggcata ttgtacaatt gtattagcaa taaaaataga 300
agtacataag tgctggaagc ctggaaggaa aaa 333

<210> 49693

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-B3

<400> 49693

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ggaggcccg gtcgcgcgca tgaaggagga cccggcgctc aagccattc tcgacgagat 120
cgagtccggc ggccccgccg ccatgatgaa gtactggaac gacctgagg ctctgcagaa 180
gttcggccgc gcgatgggcg tcggcttctg cccgttcggc aaggcctgct tgctcatagc 240
acgcctattc tgtttcgact ctcggatagg at 272

<210> 49694
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-B6

 <400> 49694

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 atgaaaagga ctttgaaaag agttatgggg agtgccaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaagggg ggcccttttt aaaggaccaa agttaacttc ccggtcattg 240
 gaaagtaaaa ctttttttaa agggcaccta aattcaatta aatggccctc catttaaaaa 300
 catgtaaatt ggaaaaccct tgggtgtacc aaattaaacg cttttgaaaa aaatcccctt 360
 ttcccaaatt ggattattac caaaaaggcc caaacgaatg gcctttcaaa aaagtggcca 420
 accttaaatg gaaaatggac ccc 443

<210> 49695
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-019-Q1-K1-C11

 <400> 49695

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 tctaatttca agggagctga tcgattgact cgtctggaaa tttttcttct tgggtgctgtt 120
 gccaaaacttg gtgcaaccgt tgttacttat ccccttctag ttgttaaggc aagacttcag 180
 gcaaagcaca tgattaacga tgacaagagg cattgttaca aacgtacact tgatgcgttc 240
 acaaagatgg tacgatatga gggctctgtc aggatgtaca aatgaatggg cacacaaatt 300
 gtgcaaagtg tttttgcttc tgctttgctt tttatgat 338

<210> 49696
 <211> 257
 <212> DNA
 <213> Zea mays

tgcccatgtg attgtctgga tgcctttcag ttatttagag atattgatca ttcaacctgc 360
 ctgagtcaag ctggaatttt cgtgttgaca agtggctgtc tatccagttg gagaattcat 420
 gcttcaatag tctggttggt cacg 444

<210> 49699
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-019-Q1-K1-F11
 <400> 49699

aattcccggt tgcaccgcac tgcctcgccc acgcgttcgg cgaggtgcmc ctacagctcg 60
 atgaataaca tgaaggctga tgcggggggt aggggtcttc atgtggcgat caagtgcaag 120
 aacagcaacg gcgagtacga gacaaaggcc gtgagtgaga tccaaagctc cggagccttc 180
 agcgtcccac tctccggcga cctccacggc gccgactgcc acgctcatct tcacagcgcc 240
 gccataact cgccttgccc tgggcaggag ccgtacagga tcgcgccccat gtcaggcgcc 300
 accttcttcg ccgtgcctgg caagatgcac taccgctacg cggagtgcgc gtacgcgttt 360
 ctctgcttcc cgatcaagaa gcacttggtta gatcacttnc acaaagcacc cc 412

<210> 49700
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-G12
 <400> 49700

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 tcaactctgtt gtctaatact gcgagaccgt tgagctcata gaggacattg gcatgaagaa 180
 caacaactac gagcatccaa agaagaaaaa gccaaagacg aagcctcttt ttgtgaagaa 240
 cggtgcaatt gttgtttgcc gcattcatgt gaataacttg atatgcatag ataagttctc 300
 tgatttcctt cagctcgcaa cgtttacact tagaactgat ggaaagactg tagctgtatg 360
 caaagttgat gatattacga ctgctggtag cccaacattc tgagcttaat tcaatattca 420

acatgatgga taatcatg

438

<210> 49701
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G2

<400> 49701

ggtcgagcca cgcgtccgga gacctatccg ttcaacccta atggttctcc actgggtata 60
gcagcccttt gctcacctgg ggggaggcac ctggctatga tgccgcatcc agagcgttgc 120
ttcatgatgt ggcaatatcc atggtatccc aaggaatggc atgttgaaaa gaatggcccc 180
aagccttggc 190

<210> 49702
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G3

<400> 49702

attaccggtc cgaccacgc ttccgtaaac ttatcctttc aaccctaacy ttattctact 60
ccgcttacca cccttttgct cacctggctg gattcccctg actatgatgc cgcattcaca 120
tcgttgcttc atgatctggc aatttccatg ctatcccact gaatggccag tttataaacac 180
tggtccagct ccttgtctgc caatgttcca aaatgctaga gaatggtgtt catagtgtta 240
ggaagcttcc tgctgcaacg atgtactcat ccaaaccct gcttctacca atatatggat 300
gattgctgga tgtatggccc aattgattac ccctttttgg caaaaataaa tgtctttgac 360
catcaataca ttatctttga ctaatgtat 389

<210> 49703
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-019-Q1-K1-G8

<400> 49703

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 gtccaaggca tgggctggca agttcaagcc caccctcgac aaggtggagt tcctctacga 120
 cggccagggg ttcattgtga tgcgcctgag caggacggag gcccgccctcg cgttcttcga 180
 cgtcgctggc agcgtcctgc actgctggac catgcatgcc caaaaattaa cgacgacgac 240
 gactgctgct gcagctaggc actaaagctt tgctgggtac gatgagttga tgatgcaatt 300
 aattatttgg ttttgtcgtc ttttcgtgcg tgagagggaa gcaatcataa ttaattgctg 360
 ctgcttcaaa aaatat 376

<210> 49704
 <211> 108
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-H1
 <400> 49704

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<210> 49705
 <211> 304
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-019-Q1-K1-H2
 <400> 49705

ggaattcccg ggtcgaccca cgcgtacggg agcccgttct tcggcggcta cggttacggt 60
 tggtcgccgt tcagcttctt ggcccccggg ccgagcgteg ccgtcggggg cgtcggcggt 120
 ttcaacacgc tcgtcctctt cttggtgctg ggcgccaacg tcggaactga caggcgggtc 180
 ctcaacagga acaacgacca ttacgacgac tactgtttat cagtgccagg ctccttgtag 240
 gcacttcacc tccgtgtgta aaatatatat tacgaaattc ttcccgctgcg gaatttttagg 300
 aacg 304

<210> 49706
 <211> 488

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-A4
 <400> 49706

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 tgtagtgctt gaacgtatgg aatttcctga tcctgtgatt aaggttgcta ttgaacccaa 120
 gaccaaagct gatgccgaca aaatggctac tgggttaatc aagcttgctc aagaagaccc 180
 gtcattccac ttctctagag acgaggaaac caaccagact gttattgaag gaatgggaga 240
 actgcatctt gatatcattg tagacagact aaagaaggag ttcaaggttg aagcaaacgt 300
 tggaagctca caaagtaact accgggaaag tatttcctaaa gttgcggaaa tacaatatgt 360
 tcacaaaaag caatctggtg gatctgggca gtttgcagac attattgtgc gttttgaacc 420
 tttggaagct ggaagtgggt atgagttcaa gagtgaatc aaggaggagg cagtgcccaa 480
 agaatatg 488

<210> 49707
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-A8
 <400> 49707

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 gtacgtccag agttgcgaca ttgtggcttt caacaagatc tagagttcag tttctgagtt 120
 tgggcaacgg cagcggctca gctcgtcaag tttgtgctgg gatgccagtt tatcccttct 180
 agtctattac agaaacgttg ttcggagctg agtctattat aaacatcttg gtctgagttt 240
 attgttgagt ggtgccagtt tttttcaata tacatttatc ttaaaaacag cggtactgat 300
 gttattttgt ctaaagttaa tgagtttgca aaat 334

<210> 49708
 <211> 488
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-B4

accggtctcg gaattcccgg ctgacccac tcgtccgcc actcttcggg cttcaactaa 60
 caacgttact aagatcaacc ctgacacgat ggcacgggtc atttacttgc acatcatgcy 120
 catagttccc tactctgatc atgtaccaat ggctgatgaa accaccttgc tggctaattc 180
 gtatggaaaa catgaactaa ctcaacgaat acatcatcca agaacactta tggacaatag 240
 tattcggtca taccgagagc actaaatcca tcatctgtct cacgcaaaag ctccacatac 300
 tcagctcaag caacccttat acttacttca tactcgctga agacaccatc tcaaaccacc 360
 ttcaaactta cctcctgaat gcaatccata acgttcatgc atacctatat cgccttccac 420
 tcatcataca ctggtatcct atctatatac agacacatat gatat 465

<210> 49711
 <211> 155
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-D5
 <400> 49711

cctgaaagaa acgattatat atgtctttca tcatatataa tgaatgggtc tcgattgaat 60
 ggccaacaag caaaccaatc caatggacct cggaataatt actaccatgg catggaaaac 120
 tattaacaac aaaatgggtg aacctgacca ttcca 155

<210> 49712
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-020-Q1-K1-D6
 <400> 49712

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 gatgtgggag atgacgatga agaggttgaa gatcattctt ctcattctag aagaccgaaa 120
 tccttgaaga gatcaaacag acgatgaagg ctctggagca tgtctggact gcctcgtttc 180
 gtgcaagtcc tttgtgggtc agcgcagatc caccctgtgg tggtttgag tgatgctttg 240
 cctatttata ctatggccag ttaagacgtt cacttgacac cattccttgc gttgaaagca 300
 agtctgcccc aattttgtca aataaatgca cttgaccccg aacatgtaga cgtaggtggt 360

gtccttattg agcaagtgcc acagctaata ctaaaagggc ggccggttta aaggatccaa 420
gcttacttac gcgtgcatgc tacgt 445

<210> 49713
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E4

<400> 49713

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tcaccttctc cacggaggag gcgatgcgga acgccgtcga gggcatgaac ggcaaggagc 120
tggaaggccg caacatcacc gtcgacgagg cccagtcctg cggcggccgt ggaggcggct 180
gcggtgggta cgagtggagg ccgcggaggc ggcggctacg gcggtggcgg gcgccgcgat 240
ggcgggtggca gctacagcgg tggcgctcggc tactgtggct gcagcggcta ccgtgggtgt 300
ggcagcggct accgcgggtg caaccggggc agcggatacg ggaactccga cgggaactgg 360
acgaactgag cgggtggggcc cgcgcggtca agttatcctg ttcgctaccg tgatgtatac 420
cctag 425

<210> 49714
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-E9

<400> 49714

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gaggcggcga gcaacgggtg gctgctgtac cacgaggtgc aagaggggaa gctatgcgcc 120
gtgcactgcg tcaacaccac tctgcagggc cccttcttct tcgagttcga cctcgcctcg 180
ctcgccgccc acctcgacca gctggagcgc ctggtgatgc tcgagggctc cctaagcccc 240
tgcgcggaaca acgctaccgt aggggacttc ttcgacgagg gcgaggggtc ccacaacgtc 300
tcctcgggca gagatttcag catccaggtt ttgcagaacg ctctggatgt ttgggacctg 360
caggttatcc tccttgattc cgcagctgca tggtcgtccc aatttgaccc 410

<210> 49715
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-020-Q1-K1-F9

<400> 49715

ttttgacagg tgaacgagca ggcaggtttg gtcgaagcaa aaggtgcagc caattccac 60
 catactagga accaggccag cgctgccccaa aaacgctcaa acaaggaaaa aaaacgagaa 120
 ggaaccaaag ttcttggaag ccaagtacac ataactccaa tacacgacta acaatgcgaa 180
 ttgcggtgaa acagatcgaa atgcaggcga tggttctccg gcctgggctt cttcttcttc 240
 ttctttcccc gtactaatcg aaggacagcg gaacctggct tgccaggcta cggtacttca 300
 gggcgtagaa catctcgatg tagcggcggg tc 332

<210> 49716
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-020-Q1-K1-G4

<400> 49716

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 tggcaaaggt ccagcgtgcc gtgtgcatga tcagcaacaa caccgccgtt gccgaggtgt 180
 tctcacgcat cgaccacaag ttcgacctta tgtacgcaa gcgtgcattc gttcactggt 240
 atgtcggatga gggatatgaa gaggggtgagt tctcagaagc ccgtgaggac ttggctgctc 300
 ttgagaagga ctatgaggaa gtcggtgcag aggggtgccga tgatgagggt gacgaggag 360
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 gagtatatac tctatggttc cactccattg gatact 456

<210> 49717
 <211> 249
 <212> DNA
 <213> Zea mays

563760 " 445660

<223> Clone ID: LIB3078-020-Q1-K1-H11

<400> 49717

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ggacggctgc tccagtcgca agagaccaca ccatggccgg gtctggaaca tcggatgcgc 120
caaaacgctc gtgtgctcaa gcacgagcac cgcgcgaggg ctggctatag actgcctgag 180
cacgctcgag gcatccatta ggcacccga gaggcagagg caatgactgc acgctgatga 240
tagtgggat 249

<210> 49718

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-A12

<400> 49718

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atcattgttt ttggcaacaa aattagcaca caaactggaa ttggcacgtc cattgccata 180
gctggtgttg ctatgtactc ttacattaag gctaaaattg aagaggagaa aaggaaaaag 240
agcgcatgac tgctgtgaat aatattatcg ggaccttctt cggacacaac atcttcgaca 300
atcacgacct acttctatac cttgttttgt tttcatcttg agtcagtcgg tccattgttt 360
gttcccagtc tggtgattaa aagtctgcaa attctgtttg tggaattggc aactatacaa 420
atttggttc ttttaagtaaa ttcagttggc ggtacacatc 460

<210> 49719

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-B11

<400> 49719

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tcttcccct gttegtacc tcgttcccgc cccgcctgt gttcaccgc acgtcatgcc 120

agggccgtca cgcacagagc ttctcatcc tctccatcac cggactcttc attcagttcg 180
 cggatggagg agtccgtcaa gaagacggtg gccagacaac cccgtagtca tctactccaa 240
 gtcattggtgc tcatattgca tggaagtga ggcgctcttc aagcggatcg gagggaacc 300
 ccatgttatc gagcttgacc atctcagtgc tcaaggacca caaatacaga acgtattata 360
 gaggtgact gtacagtcta ccgttactaa tggtttcatc cgtagaaagc atgttggttg 420
 ctggacagat acttttaaac tgtat 445

<210> 49720
 <211> 174
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-021-Q1-K1-D12
 <400> 49720

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 tacttctgtc tctgaaaggc atgtacaatt tatctatgac attatctaac tctaccaccc 120
 aaatactgta cacacataat ctctcatata taatctaccg gctctacatc tcat 174

<210> 49721
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-021-Q1-K1-E12
 <400> 49721

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 tctccgacaa ttgcggcact ggctcgatcc aatattatgg gcaccagct caacttcacg 120
 gactcctacc gctactccac cgcagcgccc accgcagcag ctcataagat tgtctccctt 180
 ttcagcaaga agcctgcccc taatcccaag cccgcttctg tatcttctc ttctacagac 240
 atcatctacg agctctccaa gtgagtatgg tctgacagg aagatctacc ttctgatgg 300
 gctgttgac cttt 314

<210> 49722
 <211> 221

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-021-Q1-K1-H10

<400> 49722

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 aaccatgttt gaagcttcca actccaacac cttttattgg ttcttcagac tatatggccc 180
 aatggtaaatt tcttttggtg aacactttta cttgatgaat c 221

<210> 49723
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-A3

<400> 49723

cccacgcgtc cgcccacgcg tccgcggact cgtgggtaag ttttgtaatt tctgtttccg 60
 tcttctcggc ttgcgagcat gcagttgctg tatatgatgg aagaacactc tgttactggg 120
 catgttgccg ggtttccacg cgtgtaagta atgtagaagt cgctatggta ggtatttcca 180
 taccgtcatt agtggatcat tgaatTTTTT tgtaagaagg ttattgcaat gccctttttc 240
 cgggcatgaa taagaaaaag gaaatatgct tatatgcatg gtattaaaaa 290

<210> 49724
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-A7

<400> 49724

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 ccgatatgcc caaatattct tgggtgccctc tcctcagaag ggaaccgaac gtggacgtga 120
 gttttgctcg ttccagttcc atggtatgcn nntctgtttc agcatantta tgtagtnntg 180
 tgtctacctg gtttttttng gcagttgtta caaannaaaa aaagaaaaat aaaaaaagag 240

ggcctggctg cttcttagag gactccaann gtcttacgta cccgcgtgca ttttgcgacg 300
tcattagctt tcttctatta gtggtgcacc tttaaattca attcacttgn 350

<210> 49725
<211> 503
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-B11

<400> 49725

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cggctacgac aacgccgtca cgggcgccgt cgggggcaga tgtgaggagg atgagctcca 120
caaggagaac atcaagaacg ccgccttctt caccggcaac atcacgttga gcgtcaccaa 180
gagcaacccg tagaccggcg aggtcatctg cgtcttcgag agcgtgcagt cgtccgacac 240
cgacctctgg gccaaagcgc ccaatgatgt caagatccag ggggtctggt actctcagct 300
cgagtgattc nagtgtctaa ctgctaggtg tccctaccgtc ctcatggatc ttgggaaggt 360
gtacgtacca tggaaaactt ttgagagcag atgatgaatc gtgtatgtaa tgtacttggt 420
aatgcanatt cnggctgtcg cttttttatt tttttatttt cagtgtgggt ttcttctctt 480
tcttgtgttc tcaagaacta cat 503

<210> 49726
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-022-Q1-K1-B3

<400> 49726

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acgcagccat catgtcggac gagaagcacc accacttggt gatccaccac aagaatgacg 180
atggagcagc cctacgtcga gtacagttac ttcgagaccg atgtgtgtac cgccacctga 240
cggggctagt accagatgga cagtgtgtgt cgagaagagc tctggtacac tcagaatatc 300

<223> Clone ID: LIB3078-022-Q1-K1-D12

<400> 49729

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 aaaaaccaga attctccaag caatcgtatc gccaacgcgg gcacggagcg gtgctggcgt 120
 ctgtttccgc cggcgctggc gccgacgccg atgggctccg ccgatcgag taagctgcag 180
 atcgacagga tcgtggtgac ggagaaaggc gccaggagct gcgtcgaatg ccgcgccacc 240
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 attcgggtacc gaaagaagag gaggcaagag cttggcctag agcacaacaa gcagcagcat 360
 caacaacaaa ataatggcga ggctaatact ggagtaaaag acagctctag caacagcaat 420
 aacaagcggg agcagcaact ttcacgtggt gc 452

<210> 49730

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-D6

<400> 49730

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 tccgacaggt tctacaaggc caccttctcc aactggccag ttggcgctcaa ccgctacgaa 180
 tacgaccagc ttagggcacc gggtgggagg gtatacttca ccggtgagca caccagcgag 240
 cactacaatg gctatgtcca tggagcctat ctttcaggta tcgactccgc tgaaattctc 300
 atcaactgcg ccagaaaaa gatgtgcaag taccatgtcc agggaaagta tgactaggaa 360
 gctacagcaa attgatttaa agctccagca aattgagcag tgtggatgtt gcattttctca 420
 gttcattttt tccctgggtt caaca 445

<210> 49731

<211> 308

<212> DNA

<213> Zea mays

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<400> 49731

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gcgggtctcca gcatgctact cccgcagacc ttactatcaa acacgtcggc aacgccgcaa 180
gtactagggc tcgtcttgtg attgcaccgg ctctgcttgc gctcttgcca gtagagcatc 240
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<210> 49732

<211> 495

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E11

<400> 49732

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cgacaagccc tacaggattg ggggtggcct gaccgtcgac gtcgacgcca acgggagaaa 240
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cagcccaatc tacaacgagg atgactggtc tcccaccggc gacgtctaca tcgagtgaac 360
cactgggctt ctgatctggg ccgtcaccct cgctgggatc ctcgggggcg gcgccctcct 420
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<210> 49733

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E12

<400> 49733

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565760" 3445650

gctgagatgg cacaagccat ggcgtcgatg agaggcctct ggcagggcgt gctgcccagc 120
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gacctccctt tgaaagagcg gttctacctg cagccgctgc cgtcggcgga ggcggctgct 420
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<210> 49734

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E5

<400> 49734

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aaaaaaaaaa aaaaaaaaaa ata 83

<210> 49735

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-E7

<400> 49735

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ccaattcatg tgaaagacgt ggacgcgagc aagcgaccac cccaacacgt aggaatattt 180

ggacaacaaa ggcattcaca cctgcgacac accacacaca aattcatccc tcacgatccg 240

ctacgagccc cagggctggg acagggaggg gctctcacia tatcacttca tctactgtgc 300

accccaggaa cctgatggag ctcccatga cttgctgggc tgcgaattca 350

<210> 49736

<211> 299

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agctatccat ggtcaacgcc gggcccaaca gcaacggctc tcagttcttc atctgcaccg 240
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acgtcgacaa ggccatctag acagtgggca ctcgcaacgg 340

<210> 49739
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-F4

<400> 49739

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ttgagctagt tgtccggagc agcagttacc aacgacgata gtctctatgc ttggaaggaa 180
atcaacggct agagcatctg ttgtcccaca cccagactat aggttaccaa tcgctatact 240
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gct 303

<210> 49740
<211> 504
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-022-Q1-K1-G12

<400> 49740

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cttgatgctt tggacgagtc ccagttcac gttggtgggg gcgattatca tcgtcttgac 420
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<210> 49741
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-022-Q1-K1-G8
 <400> 49741

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 tacatataga cagtacttct cagacacaat tcactctgac acaattctaa gatagctggc 180
 cacaggataa cctacaatca caataccgct tactatccaa gatctttacc ccaggatat 240
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 g 301

<210> 49742
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-022-Q1-K1-H12
 <400> 49742

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 gactgccctg cagctcgtca tgaagaagtc acgtgctcac gatggccttg tgaagggctc 180
 tcgtgaggct gccaaagcca tcgagaagca tgccgctcag ctatgcgtgc ttgccgagga 240
 ctgcgaccag cctgattatg tcaagctggg gaaggctctc tgcgctgagc acaatgtcca 300
 cctggttact gtgcctagcg ccaaaactct aggagagtgg gctgtgcttt gcaagatcga 360
 ctctgatggc aaagcgagga acgttgtag ctgctcctgt gttgatagca aggactacgg 420

cgagaaatct gaaggcctta acatagtga cgagtacgtc aaatcgact agat 474

<210> 49743
 <211> 497
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-023-Q1-K1-A12
 <400> 49743

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 atactcaatt cctcttact agatgatgct tgtgacaaga tcaacagctt agccaaggct 180
 aaagaacttg attcatctct aattcttctc attaacagag cttggactgc tgcaaaacaa 240
 tctacaacta tgaatgataa ggtcaaggac ataatgtatc atatttatac aactacaaaa 300
 gaaagcctca agagcatctc acctcctgag atgaagctgc tgaagtattt gctgaatatt 360
 gaagagcctg aacagagatt tcatgctctt gcaactgctt tctctcccgg agatgggctg 420
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<210> 49744
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-A2
 <400> 49744

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 tgaagtacga ggggtgtcatc ctcaacaagg cccaaaacac ctcgtaatca ttgatagtca 180
 tcaaacgact tgcccttaat tctgtgtact atgaacaaaa caccctgtgt ttggttcaag 240
 tataatctgt gtactatgaa ttctgtgttt gttggatacc aaatgcactg ccagttttgc 300
 gtctgtgccc gtaattccat cttgataatc agactagcag ttaggaacaa ataactgttg 360
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<210> 49745
 <211> 390
 <212> DNA
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<223> unsure at all n locations
 <223> Clone ID: LIB3078-023-Q1-K1-B4

<400> 49745

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ctcacctgcg ctgcgtaccc cacctccgac gtcgtcatcg agacgcacaa ggaggatgac 180
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ttaatcacia ggtttagagc aaaaaataaa 390
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<210> 49746
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-C3

<400> 49746

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aagctttttg ggaattggat ggatgctgga atgtgctcaa tctgtggtga agaaagcttt 180
ggcactgtgg ctgaccacat tcgtgagaag gatggcattt gggctgagct tgcattggta 240
tcaattattg ctttcaagag tttggacagc cttgtaggag ataagcttgt cactgatgaa 300
gatatgtgtc gctagcactg gtccacatat ggtcgctatt tctacactcg ctatgactat 360
gagaattttt atgcacgggc tgctaattgag cttattgctt acctag 406
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<210> 49747
 <211> 96
 <212> DNA

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 atgtggatca tgccgctctt accggggcct ctcatncagc ttctacgggt caggacacgc 420
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<210> 49750
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F11

<400> 49750

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 ctctgtgcgt tcaagccgct cacagacgcc gcgtcgccgg aggagagccg cttcccccttc 180
 gacgtcacca ctggtccggg ttacgtgtac cattgccaca ttttggacca cgaggacaac 240
 gagatgatga ggccgatgaa gattgtgcgt tgaacggttt ccaggaagaa aaacatatat 300
 tctatgaatg attccgtatc gcaaaagaaa cgacatgttt actgtgtctt tcccattaat 360
 gatttaagca ggaagaactt ttagatgatt gaacttttca gttaatatag catttgcga 420
 gtaaaa 426

<210> 49751
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-023-Q1-K1-F9

<400> 49751

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 ctctgtgcgt tcaagccgct cacagacgcc gcgtcgccgg aggagagccg cttcccccttc 180
 gacgtcacca ctggtccggg ttacgtgtac cattgccaca ttttggacca cgaggacaac 240
 gagatgatga ggccgatgaa gattgtgcgt tgaacggttt ccaggaagaa aaacatatat 300

cgagctagc ggtagctag ctctccgtct ccggcggcta tacatacgaa atacgatgag 120
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ctatcgcca gagctgcagc aacacctgat atgtttgttt ggggtgttat tagtagggag 240
agctagctca gctttattat tgtaataat aattctgtgc tgtacgtagc tatagcaagc 300
atacgtatgt atacacgtat atgtatgtgt ttaccgtga cttgaatgtt tggaaatggt 360
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<210> 49762
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-024-Q1-K1-G1
<400> 49762

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tcgtgggcct gatcatttcc ccttccaggg actgaaagac agtggcattg ggtcccaggg 120
gataacaaac agcattaaca tgatgaccaa ggtgaagagc actgtcataa acctgccgtc 180
accatcctac accatgggct gagatattct tgtaagtgt tctatagctc catgagcaat 240
gtagagagtt aaatgtttca tagccacgtg agatttgagc gctatttaca cctcagttct 300
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-024-Q1-K1-G5
<400> 49763

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aacaccagag gtggagtggg ggaagggtgc tgctctgggt ctgattttca ttggtctggt 240
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agaagaataa aaaaggagtt gcagacatat cggtaggggtg gtgtaatctc acacaggcaa 360
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<210> 49764
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A1

<400> 49764

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cggcggttgg caccccaggg aacagccaca ttggcc 96

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A10

<400> 49765

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agggtcaagca ggccctccgt gagaaactcc ggcgctccta cggcgccgctc ttcgccacac 180
cggcggtcgg tgaaccgagc cgtggcgccg actgccgagg ctcggccgcc gaggacccca 240
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gcttgcaaga gcatggccgg atctgcaaaa aactgctcaa gctcaaccat acttaaa 357

<210> 49766
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-025-Q1-K1-A6

<400> 49766

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ggcgattgag aggctctatg atattatgtg ctacatgggc attcagctct agcttggaact 240
cccagctcgg gggccgagga caatgctcaa ctgcctgaca ctttaaggaa cgagggc 297

<210> 49772
<211> 384
<212> DNA
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<223> Clone ID: LIB3078-025-Q1-K1-F11

<400> 49772

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tgacgaggtt cccggccgtg gccctcgtcc tgctgctcgc cgccagcgcc ttcttgcca 180
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cgtcgcccac cagcagcgcc tgccctccgc cgccgtccag ctccggcggc aagtgcccc 300
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gcaaggtgcc caccgactcg tgct 384

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<212> DNA
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<223> Clone ID: LIB3078-025-Q1-K1-F6

<400> 49773

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at 182

<210> 49774
<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-026-Q1-K1-A2

<400> 49774
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-026-Q1-K1-B12

<400> 49775
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<210> 49776
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-026-Q1-K1-B7

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 ctatctggcg gatctaataa agcatcacga ccacactatc aggctacatg actgacatat 180
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 gccgagccag ctgatctgat tgtacttcat tgccatcgtc ttgtgctaac tgctcgtaaa 300
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<210> 49777

<211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-C5

 <400> 49777

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 gcggccggct gcgggcatgt tcttgagcct gcctgtattc tactccgtgt gtgttgagcc 180
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 aa 242

<210> 49778
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-C9

 <400> 49778

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 ctaaattcct tttattgtcc ccctttttac aactcctttt ctggtaaaac ctttgctttc 240
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<210> 49779
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-026-Q1-K1-E2

 <400> 49779

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tgacgtatgt ctgtaaataa gtggcacatt cgagcgctct tcgctctgcc attgaggtgg 360
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<210> 49782
<211> 385
<212> DNA
<213> Zea. mays

<223> unsure at all n locations
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<400> 49782

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ctatggtaag acgttcaaga aaccaaggcg tccttatgag aaggagcgtc ttgatgctga 180
actgaagctg gtcggtgagt atgggctgag gtgcaagcgt gagctttgga ggggtccagta 240
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tgagggtcag aacangcttg attat 385

<210> 49783
<211> 345
<212> DNA
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<223> Clone ID: LIB3078-026-Q1-K1-H11

<400> 49783

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accgaccccg tcaacaacaa cgctgggct tacgccacca acttcgtccc cggcaagtga 180
gcgagggcat gatgcttgca tgcgtgtacc gtagacgtac gtattcctac gtactgcagg 240
ttgcaccagt atttgtgaag ggagctttgg gagccagaga ttgtaccgct agtgtatttg 300
tatgcatgat gtggagctga tcaataaaat atgttgtaaa taaaa 345

<210> 49784
<211> 326

<210> 49787
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B12

<400> 49787

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ccacaagtgt ccaaagcggt tactgaagat gcagcagcaa ctccccacta ctcatatgag 120
aatggcatcc gttctgtttg ccgcgcattt taagctgtat atgcttatta tgcatttggg 180
cttgtacctc agtcgatatg aacgatgtat ctttgaact aacgcattat aatttttgaa 240
accgttttag ccagaaatta aaa 263

<210> 49788
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B3

<400> 49788

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catttctgtc aacgatccat tagatggcga ttacttcctt cgcttgctcg ccaaggagag 120
gcaagacctc gctgagagag tgatgatcac gcgccttcac ctatacggca aatggatcaa 180
gagatgcgac cacgcgatga tgtacgagcg gatctccaaa gagaacctgg atatcatgcy 240
ccaaagggtg gtcgagacag tggctctggc gaccgatgac acaaacttcg gcgagtctaa 300
ggattgacgc ggagcaatag ctgcttcaat agatgctgta tattttcttc aatgtttttt 360
gactggctca tttctgtata tggcagttct gcatgaatag aacagttgat aggggtctgt 420

<210> 49789
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-B4

<400> 49789

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catcagcggc ttccaggacc tgcccagcgg cgacgagaac gcgctcgcca acgcagtcgc 120
 caaccagccg gtgtctgttg gcgctcgacgg cggatcgagt cctttccagt tttaccaggg 180
 tggcatatac gacgggggatg gctgtggcac ggacatgaac catgcagtga cggcgatcgg 240
 ctacggcgcc gatgaccagg gaaccagta ctggatcctc aagaactcct ggggcacagg 300
 atgggggtgag aacggtttca tgcagctaca gatgggcgtc ggcgcctgtg gtatctccac 360
 gatggccttc tacccaactt catgaacaca aatcttcaga taaagcgtag tatataccag 420
 tccatgcata tgactgcaga ataaagcatg gagagataat tacatgcgtg c 471

<210> 49790
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-027-Q1-K1-C10
 <400> 49790

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 taaccccgtc taaagggcct gataatgtgc atgtgaccat ttttatgatg aataacgtca 180
 taattaatgc taggtcaacg actatgatca cgttgatgat catatcatcg tatcgatgat 240
 ggatccaatc caatgtgcag tcaaattgcag agtcgttgca agataaaaag ggcggacgat 300
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 ctatagt 367

<210> 49791
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-027-Q1-K1-C7
 <400> 49791

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 actcgctctg tcaagttgct tcttgaccgg gacagtcatg cggtcatgcc acaggaaggt 120

65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

tatttataat ttgttttgta agacttccgc tatgtaataa gtactctgat tatattgtga 300
catttatctc tatacactct gttatt 326

<210> 49794
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-027-Q1-K1-H4

<400> 49794

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cactaagctg ggcggga 77

<210> 49795
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-A7

<400> 49795

ctttgcagca agaagcctgc ccagataccc aagcccgtg cggtatcgtc gtcttctcca 60
gacatcagcg acgagctcgc caagtggat ggtcctgaca ggaggatcta cctgccggat 120
gggctgttgg accggtcgga ggtgccggag tacctcacgc gagaggtccc tggagactat 180
ggctacgacc cttttggcct gggc 204

<210> 49796
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-C7

<400> 49796

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ttgtgaaccc aaagggagag atgaaagggt ctgccatcac tgggcccatc ggaaaggagt 120
gcgctgatct ctggcccagg attgctagcg cggcaaatgc gatcgtctaa aggaagcagt 180
ttgtcgaagt ttcatttaaa atggggactt gagaagggag ttcttagtta gacgagcttt 240

tgattgccct gaatgtgttt ccccggttaa tgcttggtct gctggaccgt ttcctgatag 300
ctttgctttg atgacatcct ccccggttatc gataaagttg cttaaaa 347

<210> 49797
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D4

<400> 49797

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ctaaccaccag cagctcgatc gctctgtagt gcagtaatgg ccgctcgctc ctctgcccag 120
cagctgggtcc cggcggcgcc ggcagcgagc ctggcagcgg cgctgctgct gctggcgccg 180
ggggccggga cggcgtcgcc cgccgtgagc tgctgcaagg tgacgtcgct ggtggcgccg 240
tgcctcgggt acgcgatggg cagcgcggcg tcctcctacg cggcgtgctg caacacagtg 300
cgctcactca acaaccgcgc gtcgtcgacg gcggaccagc ag 342

<210> 49798
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-D6

<400> 49798

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tttttgtggt ctgcacaatt cacttgacat ccgcgggtta taacccttag ggttgccggg 120
taagttaata ttttaggacc aaaaggactg ttgcctaacc caaaagcggg cactgttttt 180
taaaatatta ctgaggctat aaaagagttc aagaagggga aggtggaata cagggtggat 240
aaacaaggaa ttgttcatat tccatttggc aagggggact ttccatagga agatctcatt 300
gcaaact 307

<210> 49799
<211> 373
<212> DNA
<213> Zea mays

6644600

<223> Clone ID: LIB3078-028-Q1-K1-D9

<400> 49799

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agaagaaccg caatgagatc tgcaagtacc tcttcaagga gggcgtgctg tatgccaaga 120
aggactacaa cctgtcgaag caccgcgaga tcgatgtgcc caacctccag gtgatcaagc 180
tcatgcagag ctttaagtcc aaggagtatg ttagggagac cttctcctgg cagtactact 240
actggtatct caccaacgat ggcatgagc acctacgcaa ctacctgaac ctcccgtctg 300
agatcgtgcc tgccacgctc aagaagtctg ccaagccacc tggcccgcca tttggctctg 360
gccctcctgg tga 373

<210> 49800

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-E6

<400> 49800

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ggatcgccat tgtcggactc ggaggaacac cgactcgtat cgtaaggccg accctgggcg 120
tccaaatacc taccgcagca tgctggcacc ctccgtaaga acggcttcat cgtcatcaaa 180
aaccgtccct gcaaggttgt ggaggtttct acctacaaga ctggtaagca tggccacgcc 240
aaatgccact ttgtcgccat agacatatc aatgggaaaa agcttgaaga tattgttcct 300
tcatcacaca actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt 360
tctgaggatg gatttgtgag ccttcttact tcagatggca acactaagga tgatcttaga 420
ctcccaactg at 432

<210> 49801

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-028-Q1-K1-G11

<400> 49801

cat

303

<210> 49807
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-A6

<400> 49807

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atctatagac cccatgaccg ggatagggtc cttctatggg acggcctgcc ctataaaacg 120
tcatcccagag cattaaattt cctgaagtac tctcttatct gaaacccta ttgacctatg 180
actacgtaaa taacaacccc taccagtatc tccccgttc cataaataaa tccattgaca 240
ctagctctac tagacctgta taacaactct acataagaag cattatcttt ttctacctcc 300
ctaatacctac 310

<210> 49808
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-029-Q1-K1-B1

<400> 49808

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cggctaccct ctaccatacg gtggtnccgg ctggagaagc tggagaaggt cttcgcggaac 120
gaggccgtcg ccgagttctt cgacaacccc accgtcccg cgcaggagaa ggccgagctc 180
atcgacgaga tcgccaggtc gtccgagctg cagccgcacg tcgtcaactt cctcaacgtc 240
gtcgtcgaca acttccgcgc ggccatcgtg ccgcagatcg tcgccgagtt cgagaacgtc 300
tacaactcgc tcacggggcac cgaggtcgcc accgtcacct ncgtcgtgca gtcgagtcg 360
c 361

<210> 49809
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B4

<400> 49809

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ccggggggga gtgctctctg ctccgacttc cctagagcct ccggtagcac agccgagaca 120
gcgacgggtt ctccacccat acgggggatgg agcgacagaa gtatggaaat aggataaggt 180
agcggcgaga cgagccgttt aaatagggtgt caagtggaag tgcagtgatg tatgcagctg 240
aggcatccta acgaacgaac gatttgaacc ttgttcctac acgacctgat caaatcgatc 300
aggcacttgc catctatctt cattgttcaa ctctttgatg aaaagaaaag atgaaaa 357

<210> 49810

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-B6

<400> 49810

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cgaaaggctcg tcgtcgggcc catcctcgtc atctcgcggc gcggcgctca aagtatgcga 120
cgaggcgagc gtgcagcccc ctctccgccc catgcccga 160

<210> 49811

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C11

<400> 49811

ctggacaaga aggtggtgga tgtggccagg gaggtggcca aggtggaggt gccatcatgc 60
cggcgccatc tggacgttgt ggtggcctgt gaggatgacg acgacaatga tgtcgacgtc 120
ccacttgtgt ccatttactt tcggtaaaga ggggctcacc gcccgtttac atgttgatcc 180
tgtgcgatat ttgtcaatgt ttgtctcaga aggatcaagt gtataatttg cgatagcaac 240
cgtgaactag atttgtgtta agcacatact gatgatttcc tgtgctgcca tctgggttaga 300
ctcggctggg aattgtcgct gaaaa 325

<210> 49812
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-C7

<400> 49812

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 ccatgatggc tgaggcctat ggtgacagcg ctgcgaagga cgactgagaa gcagaagaag 120
 atgacgagag tgccggggag agcagcatct ctcttaaggt ggtagtttcc aaagactctg 180
 gccagagct cgagttcaca tgcacagcct tccgcgagga gatcaccatc gatgatatgc 240
 tgatagtgga gaaaacagac gacgacgacc gagaatagaa gttcccctac gagggccccg 300
 agttcaccga gtcacctgtg aatgttcaga aaggcctgtt caagtacctg gagcaaagag 360
 gggtaacgct gtcggctacc aactatatgc acgattacat ggtgac 406

<210> 49813
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-D2

<400> 49813

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 acaaacaatc actctcgact acagaaggga gtgtcaacag gatgatatag ttgattctct 120
 tacttgcata gaggaaggag aggagaaaag catgaacggc tctgcttctg cagcagcgcc 180
 tcacaaagaa gagcggcagc agttcctgca ttgcttgaga tttgcagcca acggacacga 240
 gatcaaccgt ggccgtaccg tgtggaggaa gctagctaga taaaagtgtt ctttcgtcat 300
 aaatgatc 308

<210> 49814
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

66344630.094360

<223> Clone ID: LIB3078-029-Q1-K1-D9

<400> 49814

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cgacccgctc ggcttctcca aggaccgggc caaggtcgag gagtacaagc tcaaggagat 120
caanaacggc cgcctcgcca tgctggcctt cgtcggcttc tgcgtccagc agtcggcgta 180
ccccggcacc ggcccgtgga agaacctcgc ctccacctc gccgaccgt ggcacaacaa 240
catcgcgac atcatcatcc ccagatcaat ctccccttga gctcagctca gctgctggtt 300
gctgtttcct gtgtacgact aggccctgcc tgtacaacga gcgacgactg tgacttcccc 360
cccggaaatt aaacctcgt aatgtaaagc ttatgttatt aagtagcggc tactc 415

<210> 49815

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-E1

<400> 49815

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ttcgcgcca ccctcgaggga gaaggataag gagctcgcca acgggaggct ggccatgctg 120
gcgttctcgg ccttctgat ccagcacaac gtcaccgga aggggccctt cgacaacctg 180
ctgcagcacc tgtccgacc atggcacaac accatcatcc agacctgtc gggttgagtc 240
gacggtccat cangtcatgt ggtccgagct gaaaggccga gactcgaaga cagttcgtgt 300
gatgcgttct taatcgactg anggctaagg aatgtgacgt actggtatat gtaca 355

<210> 49816

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-029-Q1-K1-E12

<400> 49816

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665760 "094550

cgaaacaaga actctgtgta ttcctgtacc gagctgtgca tgtttttttt ttctttccat 120
 cgtggagaat ttaagttatt atccgtttgc tgcaaggttt gccgtctcat tttatgcgtt 180
 gggatgttgg caagaaaggg cagatgtcat gtgagaattt aagttaagtg aaatcgattc 240
 agggttttct tggtttcagt ttcaannnnn naaannn 277

<210> 49817
 <211> 57
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-029-Q1-K1-E9
 <400> 49817

ccggaattcc cgggtcgacc cacacgtacg gcttactata ctacataaac tcgtacg 57

<210> 49818
 <211> 136
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-029-Q1-K1-F12
 <400> 49818

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 gccgcaaag ccgtctcgct ggtgctcccc aacctcaagg gcaagctcaa ccggatcgcg 120
 ctccgggtgc ccaccc 136

<210> 49819
 <211> 244
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-029-Q1-K1-F4
 <400> 49819

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 taaacagata ccataatatt gtgggagaag ataatggggc acaacacatc ctaaccgatt 120
 acaaagtcca ccttgagaaa attgcaaacc aaacaataat tccaactcaa acgataacaa 180
 ctaattgtcc ctcaactgct ctcttcgac acacccttgt cgctcacata gataccatcc 240

aaaa

244

<210> 49820
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-F6

<400> 49820

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gaggtcgtac tcggtcagga tcagggcctt ggaggtcgag taatgcctgt agaaagtcgg 120
tgaggacgcc ctaacctaga agatgacgac agccatcgcg gagcttacca cagacattgg 180
taacaagggtg ctacatggac cgatgcagca cctgaggtgc 220

<210> 49821
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-029-Q1-K1-G4

<400> 49821

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ccttaccceg ctggccctgc cttccggtcg ccgcgacggt gccgaggggg ctgccccagc 120
accacgcgcg cgggggtccga ccgcgagagg ggcgggggtc gaggcgcttg cggc 174

<210> 49822
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-030-Q1-K1-B1

<400> 49822

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ggttcgagcc gtgcgggctg aaccagctct acgcgatggc gtacgggacc gtgcccgtgg 120
tgcacgccgt ggggggggtc cgggacacgg tggcgccgtt cgaccggtc aacgacaccg 180

ggctcgggtg gacgttcgac cgcgcggagg cgaaccggat gatcgacgcg ctctcgact 240
gcctcaccac gtaccggaac tacaaggaga gctggcgcg cctgcaggcg cgcgcatgg 300
cgcaggacct cagctgggac cagccgncg tgctgtatga ggacgtgctc gtcaaggcga 360
aataccagtg gtgagcgaat taattggcga cgccgacggc ggtcctgtcg caggacctgg 420
acgttattta gaaggctctt ctctctggcg gctttgatgc gtgcg 465

<210> 49823
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-030-Q1-K1-B12

<400> 49823

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acaagcttaa ccaaggcgct tggagctggt ctcaggagga gaaggatcac tgcctggagg 120
agacggacaa gtcattcgcc tactcacgaa gcctgctccg gcacatattc acctgattta 180
acactgttgg ctgatccagt ttcaaagcgt gtacatacat aaccttttga ctgctaaaac 240
tttattactg gtgaggcgga tctccctacc ccagatacgt ttacctgca accaagttgc 300
caagtgacga ataaacctac ctgcatcgct ggtgtagggt aaacgctgaa cgatgcctct 360
gactgtgaaa aattt 375

<210> 49824
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-B6

<400> 49824

cccacgcgtc cgcgacggca gcctgctgcc cagggcgggtg ggcgtcaacc ccaggatcag 60
catccagtct atcgcttctt gcctctccaa gggcatcgcc gagaccatgg ccagggggca 120
gggcaaggga cagtagccta tgattgagac gcgcctggcg atggtttaat tcatgcgtgc 180
aacactgcaa catgtgtgcg ttcttgtaa tcgagtgtgg tgaaagcgtc gaaaaatgtg 240
tttgtgcatt gcgtttgtgc aaatggtacg cgaatcacia tacatcctgt ttctgcccc 300

ggtcaaaa

308

<210> 49825
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C1

<400> 49825

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accggggcct tccggaagaa tgggcaattg cctcaaaagg agattccttc caacgtaatt 120
ggggccgaat tcaagaaccc gcttccagaa ctctttggga a 161

<210> 49826
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-C12

<400> 49826

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tcggcatatc caagccagag cgcgtgaagc agattgcgca gtggggcgct gacgggggtga 120
tcatcggcag cgccatggtg aggcagctgg gcgaagcggc ttctcccaag caaggcctga 180
ggaggctgga ggagtatgcc aggggcatga agaacgcgct gccatgagtc catgacaaag 240
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ataaaaataa gccaagtgga agtgaagctt agctgtatat acaccgtacg tcgtcgtcgt 360
cgttccgat cgatctcggc cggctagcta gcagaacgtg tacgtagtag tatgtaatgc 420
aatgaatgtg gagctactag ctagc 445

<210> 49827
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-D8

<400> 49827

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335

<210> 49830

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F10

<400> 49830

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gcggcacaga ggtgcgacgt acgacgacgg cgacgcgggc gccacacatg gcatcccagc 120
tctccgccgc cgtgccccgg ttccacggcc tccggggcta cgccgcgccc aggtccgcgg 180
tggcagcgct gccgtccgtg aggggtgggca ggaagaggtc gtcgtcgag ggcattccgt 240
gcgactacat cggctccgcc accaacctga tcatggtgac gacgacgacg ctgatgctgt 300
tcgcggggcg gtccgggctg gcgcgcgtccg cgaaccgcaa ggcgacggcg gggctgaagc 360
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<210> 49831

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-030-Q1-K1-F6

<400> 49831

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gccagcctcc ccategcccg ccgtcctcctc agaagcctcg gcaacgtag caacggcgga 180
aggatccggt gcatgcaggt gtggccggtc tacggcaaca agaagttcga gacgctgtcg 240
tacctgccgc cgctgtcgac ggacgacctg ctgaagcagg tggactacct gctgcgcaac 300
ggctggatac cctgcctcga gtccagcaag gtcggcttcg tgtaccgga gaactccacc 360
tccccgtgct actacgacgg ccgctactgg accatgtgga agctgcccat gtccggctgc 420
aacgacgcca c 431

The first of these is the *Journal of the American Medical Association* (JAMA), which has been the most influential of the medical journals in the United States. It was founded in 1883 and has since then published a wide range of medical research, including clinical trials, epidemiological studies, and reviews of the literature. The JAMA has been a leading voice in the medical community, and its publications have been widely cited in the medical literature.

<400> 49832

<210>	49833
<211>	400
<212>	DNA
<213>	Zea mays

<400> 49833

<210>	49834
<211>	283
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A1

<400> 49834

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 caacttcggc gaggcggtct gattcaaggc cggcttcag atcttcaacg agggcgggct 180
 ggactacctc agcaacccta gtctgatcgc acagctcaga gcatgctcgt catctgagcc 240
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<210> 49835

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A2

<400> 49835

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 cgaagagcgg cgtggcgacc aaaactagat ctgtcaagcc tgagctgaag gccctctgaa 180
 gcgcatgcgt agcattcaag tgctgcgatt gtctctgtac aaacagaatc gcctgactct 240
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<210> 49836

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-A3

<400> 49836

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 aggcaggcaa gttcccgacc ctgggttactc accaggaatc cctcgagtcc aagggtgaacg 180
 agactaatgc aacagtcaag ttccagctca agaaggctct ttgcatgggt gtcgcccgtcg 240

gcaacttggc gatggaggag aagcagatcc agcagaacat ccagatgagc gtcaacttcc 300
 ttggttccct tctgaagaag aactggcaga atgtgagatg cctgtacgtc aagagcacca 360
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 <211> 479
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 49837

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 gactatggct acgacccttt tggcctgggc aagaagccag aggacttcgc caagtaccag 180
 gcctacgagc tgatccatgc cagatgggcc atgctcgggtg ccgctggcgc tgtcatccca 240
 gaggcctgca acaagttcgg cgctaactgt ggccctgagg ctgtctggtt caagaccggc 300
 gcgctgctcc tggacggcaa cacccttaac tacttcggca acagcatccc catcaacctg 360
 gtgggtggccc gtgatcgng aggtcatcct cgtcggcggg cgccgagtac taccggatca 420
 ccaacggact ggacctagag ggacagctgc accccgggtg gccctttgac ccctgggc 479

<210> 49838
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-031-Q1-K1-A6
 <400> 49838

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 cgggtggcaac tgcaagtgcg acccctgcaa ctgctgatca catcgatcga cgaccatgga 120
 tatgattatt atctatctag cttgtgggtg tggttgaaca ataataagcg aggccgagct 180
 ggctgccata cataggtatt gtgtgggtgtg tgtgagagag agagaaacag agttcttcag 240
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tacctgcatg

310

<210> 49839
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B1

<400> 49839

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ccatatgacc ataagctggc gatggcactc tgcgctgagc acaatgctca cctcgtcact 180
gttctctggcg cgaaaactct tggcgagcag tccggacttt gccagattga ctctgacggc 240
aaggcacgga aggatgtaag ctgctcctgt gtcagggcca aggactacgg tgaacaatct 300
gacggcc 307

<210> 49840
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-B6

<400> 49840

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gccgctgtga cgggacacct acgggactaa cacttgaaac cagtggaaac agcgaccggg 120
gatgttcacg agtggatgga tcaactgcaac tatgatcgtc aggactgtct gtggacctag 180
tagtacagcg tgattaaggg ccaccagcgc ctacaccgac acccactgag cgattcgact 240
acgaagcacg tctagtgtct ttgctagacc gttgcagagc tgggactatg ttac 294

<210> 49841
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 49841

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 atgcggtata tatgccaaat gtacgacaac tcactcggtc 340

<210> 49844
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-031-Q1-K1-C5
 <400> 49844

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 tgatgataat gccacaacat cttctacaag caagatcagg atgaagacaa aaaacgttat 180
 agtgaagagg aggggttgat tgctgcattc aaaagtgtcg gggatacctt atccaatgct 240
 actgagaagg ttgccacagg ggacactgat gtgccagatg atctttttat agttagataa 300
 acctttcagg ttttgagcag acccacatat ctctggattt caattatctg gtggcgcacc 360
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 aatttc 426

<210> 49845
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-031-Q1-K1-C8
 <400> 49845

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 tattgtggca gtgggcaatc ccaaaatata gctctcttgt tataggttag tttattatga 180
 gtagcattcg gcttatgttt ttctggaccg tccccattat gcattagctt gggctgcttg 240
 gctgtatgta ataataagca acattctgct taiaaaaaaa ataaaaataa aaaacaaaac 300
 aa 302

<210> 49846
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F2

<400> 49846

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gaacgaaggc atgatgcttg catgcgtgta cccgagacgt acgtattcct acgtacttga 180
agttgcacca gtatttggga aaggagcttt gggagccaga aattggaccg gtaggggatt 240
tggatgcatg ctgggggaact taacaattaa atatgctgga aatataatat ggcttcaatt 300
attcctaccg atgatcaagg tgggagccaa aaaaaaaaaa aagggccgg 349

<210> 49847
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-F3

<400> 49847

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atggtaacca gcagcctaac caagatccgt atgttgagga gccagacgat gggattgatg 120
agacagaagg tggccaagtc gagctgcaca gggatctcag tagggctaata agtggagggc 180
agccgcaggc tcgtactttc acatatcaga gctcttccgt gacgtttggt ggtattaatg 240
gagcttacta caccacttca aagtctcggc ggactggtag tgacgggatc actgtggaag 300
aaagcaagga agctgataca acaactaaag aagctactca tagaatctcc cgtggaatcc 360
atgacaaggg acattccctg acaaggaaac tgaattcgga tgggaagggt gacaccacac 420
agacactgca caaccttgat gaagatgaac tagctggatt 460

<210> 49848
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-G5

<400> 49848

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 ggtctgcact aggggtgcgc ctggtgcgca cgggagctgg gcaaaccgtc tgtgcgctag 120
 ctagggtgcc aggccatata tcagtcact ctgcgagcca tcgtcggggg gtcgagga 178

<210> 49849

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-031-Q1-K1-G6

<400> 49849

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 ccacatgaag cttgtgaaaa agaattcaac tcataatttc ttctaattgcc gaagtttcta 180
 gtgaagagac ttgtactctg tttttatggt atattgtcta tttgtacatg tgaatggaga 240
 tgatcttatg tgatgtgatg atggatatat taactntggt gggtggatat taaatgttat 300
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<210> 49850

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H1

<400> 49850

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 cttgaccaca acgatgtcta ctgccgatct tcttatctcg ctgatgagta tcatgatcca 180
 tgttacagct cctgagaaca agcaggtgat actgatcgac cgaatagaag agctggcgac 240
 aacatgggat tcaatgatca ttccagcagg gatgtatctg tacttacgtc ttaacatggg 300

caa

303

<210> 49851
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H11

<400> 49851

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tcttgtcgac cctagatatg tccaaactgc agggaaatta aatcttcatg tgtaattgtg 180
ctcattctgt ttcaatcatc tcaacaaaa 209

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<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-031-Q1-K1-H5

<400> 49852

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agaaaagacg gagttggtgc ccctaagagg gaaagagtat tacagaagca tggcggtagg 120
cttgaccaca acgaggttta ctgcggatct tgttatggtg ctgaggagtc tgatgatcag 180
tgttgcaact cctgtgaaga agtttgtgat gcgtatcgaa agaaagggtg atctgtcaac 240
aacgtagaat taattgatca gtgcaagaag gagggctatg tacaaagggt aagagatgaa 300
c 301

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<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 49853

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 tacgacggca tctacctct catcacctac ttcaccaagc cggagtccat ggacgccctg 180
 cagcttaagc tcaacgccga cgacgacgtc atccgctcca ccagcttcaa ggtccgccag 240
 cggaaggccg tctagttaga cgggttgct nctncgnctt caggccctga aactgggttt 300
 gttcacatac catactacaa gaaatctgct gtacaagaat ccacctttgc catggatgg 360
 gaagtttttt ttttttgat 379

<210> 49854
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 tccagttcca gtgcagggcg tcgactttcg cggcggacac cagccttcgg ctcgagctgg 180
 acgagaaccc cgaggcgatc atctcggggg cgtggcccgg gaactgctcc ctntcagct 240
 acgacgacct tcgcgcctac ctcgagtcgc aggagacggc ggcccaggca gacgatcagc 300
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<210> 49855
 <211> 112
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-032-Q1-K1-A7
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<210> 49856
 <211> 366
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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-032-Q1-K1-B1

<400> 49856

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gatcatcang agcaacagtg tcagtactac tgggaatgag aacctgagaa gcagaagcat 180

caattctgag gctgacattc agcttgcat caagtctctg cgggcatcaa gcatgtcgca 240

tgagatggta gaggtctcga cggttcctga tcggagagat taaggtgcat cctcaaggaa 300

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agagat 366

<210> 49857

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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cctggaccag gccgaggagg acggcatcga cctgccttac tcctgccgcg cggggtcctg 240

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cgacgacggc cagatcgccg ncggctgggt gtcacctgc cagcctacc ccacctctga 360

cgtcgtcatc gagacgcaca aaggaggagg agc 393

<210> 49858

<211> 198

<212> DNA

<213> Zea mays

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 cgagttgaat tgtcaaaa 198

<210> 49859
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-C8

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 aagctagcct ccatggatgc tcaaccttcg tcatgtaaca ataatacgtg ctactcttca 120
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 <212> DNA
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 ccctttcgta acccaactta atcacct 207

<210> 49861
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 <212> DNA
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<223> Clone ID: LIB3078-032-Q1-K1-E1

<400> 49861

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catattct 68

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<212> DNA
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tcaagctcag cgccctcgtc aactactgtg gcaagtgcgt gcccaagggc tacttgtgcg 240
cgtaagcagc ttccggcgggt cacacgctcg tagctgttca cgtacgagat tacataatgc 300
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<210> 49863
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-E9

<400> 49863

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gttttttggg gaaactttgt gaagctccat acaacaagac actggattgg tccaaatggg 180
acatcttctg gtctgatgaa cgtgctgtgg caaaaaacca tgcagagagt aactataggt 240
taacaaaaga aggattcctc gccaaaggtag cgattctgaa tgggcatgtc tactccataa 300
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<210> 49864
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-F12

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tgccgagttc aagaagatgt ttgacctcat cgagcagtag aacctgaacg ggcacatccg 180
ctggatctcc gccagatga accgcgtccg caacggcgag ctgtaccgct acatctgcga 240
caccaagggc gccttcgtgc agcctgcttt ctacgaggct ttcgggctga cggtggttga 300
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<210> 49865

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-F5

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gcttatgttg cccagaggt gattaacaga aagggttatg atggtgcaaa ggctgacata 240
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<210> 49866

<211> 352

<212> DNA

<213> Zea mays

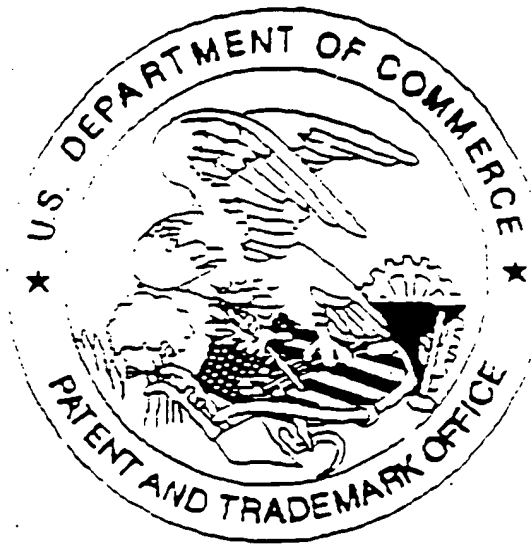
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accatggcgg cggcagcagg cggaggcgcg gtgcgcgctc tgtcccagaa ggagcaggac 180

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for scanning. (Document title)

☐ Page(s) _____ of _____ were not present
for scanning. (Document title)

Sheet 21362 WERE MISSING

☐ Scanned copy is best available.

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-032-Q1-K1-G4

 <400> 49869

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 aaactgcggg aatgaaaacc tctccttctt cggtaccata ctgtcagtgc ctagcgggtg 180
 ctcaaaaaac agcgtgaaat gtgcaagttg tggcactgag ttggagtacg actcttcaac 240
 ccgattgatc aactcccag aaccggctga ggctaaataa gtgatggcgt ggtttcgatt 300
 tcgctagcag gaaagacggn ccggnccggc cgcagattct tgatcgacga cagtacgaag 360
 caagactgtt ctgggatcgg gtggcaatcg tggagtgaat ggatgttgct gtgctaattct 420
 gtgtgaatat atat 434

<210> 49870
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-032-Q1-K1-G9

 <400> 49870

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 gcacaaagga aggccgcacc ggcaggcagg acggcaagag ctaccgcttc ttcgacgagc 180
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<210> 49871
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-032-Q1-K1-H3

 <400> 49871

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 ctttctgccg aaggggcctt ggatgaatgg tgaaaaccgc tggatgggta gaggatctac 360
 atcttcttgt gttcttctgt aaaatactga gacttgggca gcataaaaag cttggcaaatt 420
 ttct 424

<210> 49874
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-032-Q1-K1-H8

<400> 49874

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 gagatgacgg cgccgggtgct gacgcgggtg tggcccagcg acggggccctt ctgcgcctcc 120
 gccttcgccg tgagcttcta cgtgccggcc aagaaccagg cggacccgcc gtcggccgaa 180
 ggcttgccgg tggaccgctg ggccggggcc aggtacgcgg ccgtgcccgg cttcggggggc 240
 ttcgtggcgg acgccgacgt cggggagcag gcggcgccgg tcgaggccag cctacagggc 300
 acccggtggg ccgccgacgt caacgacgg cgcagggccg acccggtctc ggcctacacc 360
 gtcgcgagcgt acaactcgac cttcgagttc accggccagg gcaacgagat ctggatgctc 420
 tttgacgcgg a 431

<210> 49875
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-A11

<400> 49875

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 ctatgtcaa ctcatTTAAC cggggggggc tttccgaata ttctggggca ttagaaaatc 120
 ttaccctcaa aaagccttct gaggtatttg cttcccaaag cccaaggctt cccattgccc 180
 gccgacttg cttcaagcg ctttaagacca tttgcgcaa attccaccgt acttgcaaag 240
 cccttaacct tcttgtcacc ccggcattaa gtggcgtctg cctttaagcc ctgcaacttt 300

cgaaaacggc ttgtcttc

318

<210> 49876

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B10

<400> 49876

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tctctctatc tctcttcggg gtccgaatct acggacccaa gcgaatcgac acctcaccga 120
catgggcccgc acgctcttca tccgtggcaa ctggaaatgc aatggaacca cagatcatgt 180
cgcgaaacata gtcaaaaccc tgaatgaacg acaggttccc cttcagatc ttgaccaggt 240
cgttgccagc cctacttatg tcttccttcc tgtgctcaag agccagctgt gccaagagtt 300
ccatgatgct gtcataact gctgggtgaa gaaaggacgt gctttcactg gtgaactcag 360
atctgagatg ctcccaacc ttggtgatcc ctgagtcatt cttggacact ctgaaacgag 420
aactctgctt g 431

<210> 49877

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B2

<400> 49877

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aaactccggc cggcgacgcg ggggaaaatg gggaagacgc cggcgcgat gaaggcgggtg 120
gtgtacgcg tgctgccctt ccagcagaag gtgatgccgg ggctgtggaa ggacatcacc 180
accaagatcc accacaaggc caccgagaac tggatctacg gcacgctcct tctcactccc 240
gtcgtcggca cctaccaata cgcatgtgg tacatagagc aggagaagct ttcccacaga 300
tactaaatgg gatgtcctac aagttgctgc ggcttgctgc agttgaattt tccatgatgg 360
gttgataat ctgtcaatgt catttctttg ctgaggttta gttcaacca ttttcacctc 420
tccatatgca tatacgggat ctgtgcctgg caaacat 457

<210> 49878
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B4

<400> 49878

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tgctagtaat ccatttgtgc tgtttatgta tcgaaggcag caaagatgtg tgaagcggca 180
atgggatgct tgctgtaagg taatatgttt ggcttgctag gcatgctaca cgctatttgg 240
atgtagcaac gttatcacca gctgtatacg ctttttaatc gacaacattt gaataatatg 300
tacataacat tatgttgtgc tctgttctct gtctgtttga tgtgcttatg ggttttgatc 360
tgtagcttaa aaaacaaaaa agatc 385
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<210> 49879
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-B7

<400> 49879

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aaggccgcgg ctgatctggc cgctcatggc agacagagtt aaagtgaaaa acaaaacata 120
caatccatcc tttttcagtt actaaacatg aggacgaaca ccttaatagg atgcttgaag 180
tgtttgttgt cgatgtatat ttataacaga caacattgtt gatttgttgt ataaattaaa 240
aggagacgta cactgcgttt gcaactgataa gtttgattat tgcaaattga gtcgagtgat 300
cgtgcaaaa 309
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<210> 49880
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-C7

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 attgcgaaac atacactccg cagacgcctt tgagatgata caaaaccatc tcaatcttat 240
 catgggagaa aagatagcat caccgaccga tactgttggt gagatcagca acttgaatct 300
 tggaaagctg tatgcagcat ccatcatgta tggttacttt ctgaagagag tggatgagcg 360
 attccaactt gagaaaacta tgaagactct nccaccaaag cccaaccagc agatagtatt 420
 tgaaaaccta cagcctaatac cattctggga ta 452

<210> 49883
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-D6

<400> 49883

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 aacgcatcgt gcccggtgac agtcgtcaag gggaagtagt ggctgggca gcgtgccagt 120
 gatatgaatg aagatgctag cgtgcagttt gtgtgggtta tagctaaaca ctatgttccg 180
 tcctgttgct gcatttcaat aaagcatgtg tcttctagat ttcacaaatc tctctgaggc 240
 tctgaccttt gtcttattag ctgtgaaact gtccgtactt cattcctgtt cagatcgaat 300
 tcgaggattg gttcataccc cttt 324

<210> 49884
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-033-Q1-K1-E12

<400> 49884

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 agtatgctgc ttgcctagct gcctgtaacg aatatgaatg cataaaataa cgccccctgct 120
 gctcccatat gcatcagcag tgtgtaccac tatatatgtt atatactgta tttcgctacc 180
 gaataaaaaac ataaataaaa gatccaaaa 209

<210> 49885
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-033-Q1-K1-F12

 <400> 49885

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 cggacgcgtg aatcgaggca ctggtacagt tctagatcga gctggcgtgc attagacgtt 120
 tcaaacttac ctacttaaca attttacaca atagctagtc tataaagaca tgtctgattc 180
 atatatttga cgaatctttc aatacttata tttaatgaat ggacttctta aatgacttct 240
 attgtgtaac atcttatttg ttttaatttta gttacttttt ttacatctac ttattttatt 300
 atctcttttg tcttcatttt ttgcacatac aatgcctttt at 342

<210> 49886
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-033-Q1-K1-F9

 <400> 49886

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 gcacccggga aagtgatgcc cacagagttc aatcaggagg ctctgtccac cagccatcca 120
 atgggtgtaca tgtattctgt tatgagttct ctgttttttag agcaagttaa ataattttt 180
 ttatgagttc tctatataat gctcaaataa tttatctaac ataaatatta tagcgataat 240
 tatttttagaa tatagacagt atatttcttc tatttttaaaa taaatattgt atttggttct 300
 gtgctcatca tattttcaga tttataaaaa aaatgttaac caaaa 345

<210> 49887
 <211> 500
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-033-Q1-K1-H12

 <400> 49887

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tctnctggg ctattgtctg ggcgcgcctc ggggtgcctgt gttcccggag cctgctcgcc 180
cgcaactggc gtcaagnttc ggcgagggcc gtgtggttca agggccgggt cccagatctt 240
cagcgagggc gggcttgact acctcgga cccgagcctg atccacgcgc agagcatcct 300
ggccatctgg gcgtgccagg tgggtgctcat gggcgccgct gaggggtacc gcatcgccgg 360
tgccccgctc ggggaggtgg tcgaccgct gtaccccgcc ggcagcttcg acccgctcgg 420
gctcgccgac gacctcgagg cgttcgcgga gctcaaggct aaggagatca agaacggccg 480
ncttgcatg ttctncatgt 500

<210> 49888
<211> 300
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-033-Q1-K1-H3
<400> 49888

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gaagatcaag agcaccaccag agggcgagaa atacttcgca gcaaccaaag atgctcttgg 180
cgatgttctc gccaaagctag gctagacgca agggctaata atggccatgt aatttcggac 240
ttgcgtttgt tcatatggac ccggcaaggc aatgtacat tttctgttga tattgtaaaa 300

<210> 49889
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-034-Q1-K1-A10
<400> 49889

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aaagaaggag acacacaatc gtcgcctgct taaccagagc gacaatgcc aagctcaggc 120
tcatcttcac cgttattctt gtgggtgtct tactgttcag tgggtgtctc tcaggacaaa 180

ctgcagctac acaagccagc gatgcagatc tttctgaagc ggttgaggtt gagagacgca 240
 gtgggaaagt tctgacgtac gttcaagact acgactacgg cgggtccaac cccaaacatg 300
 acccagcgag gaagccaagg agcggacacc 330

<210> 49890
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-B6

<400> 49890

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 caaaaggctcg accacggcgg atagaagcac aaatttgctg caataccaac accccatgtc 120
 agcaggagga aataacagca cattttggga cctaactcta tagcttgaac gaattggtac 180
 catcctatct cctgcttggc acgctccaga aaagcatcaa aatttctgga cctgttcttg 240
 ttgattcaca gatcaagctc cagccaccta ttctgcatcg ccggcaccaa aaccgtcgtc 300
 ttcgacttcg tcaacctttt gaggtgccac actaccttcg acagctgttg ggtcatcatc 360
 tccaaacttt tcag 374

<210> 49891
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-D10

<400> 49891

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 cgtagcatca acatcaacat gggttcctgg gtgcgcacca tcacgtcgcc cttccggaag 180
 atgctcagcc cgcaacagcg cgacggcaag aagacgccgc gccgtcgtca ccaccaccac 240
 caacgacgcc agcagcaatc tcctttctact tctccttctt cttcatcagc catggaggag 300
 gagcacatcg gcgagatgga gataagcagg tcgcaactct actgcgaggt gattgcgtgc 360
 acgtactatg acgtgcaagt catgtggtcc atgctcgaca aggccaggat ctgcac 417

<210> 49892
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-D7

<400> 49892

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 ttaattctgg agtagaaaga gcgaaagagt cggatgcact aaatctaggc ttgaaatagt 180
 tcctggcttg ggactgttcc tatgctgccg aatggggccg agcaatttcc aaatatatat 240
 tatctattgc tacttccttc acatattcatt actttatatg ttcttattgg ttacatttgg 300
 cgccattggt ggtaagactg taccaccac agttttattg agaaaggctt ttaagatggg 360
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 ct 422

<210> 49893
 <211> 496
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-034-Q1-K1-D9

<400> 49893

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 tacctgatag aannaagcta gcatnctgat ctagtcgtat ngcatcaaca tcatnacatg 180
 ggttctggn gtgcgcattc catcatcgtc gcccttctcg gaagaattgc tcagcccgca 240
 acaagcgcga cgccatagaa gacgctcgcg ccgccgccac caccaccacc aacgacgcca 300
 gcagcaatct ccttctcctt ctccttcttc ttcacagcc atggaggagg agcacagcgg 360
 cgagatggag ataagcaggt cgcagctcta cggcgaggtg atggcgtgca cgtacgagga 420
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496

<210> 49894
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E10

<400> 49894

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gcctcagctg atctgatcac actctgatgg ctttacacag gaactagacg gctctcccat 120
ggacaaatct aactaccaca cgacgcatat ccaagccttg aaatcacaca tcaactgcat 180
cttatagccc aacctctact atcaatacaa ctatactata acctacatgg acgtagccac 240
taacataa 248

<210> 49895
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E12

<400> 49895

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catggctgcc gtggcattat gtgcatgac aggactgttt tacccaatga aggataagaa 120
atacaatcat gactgtgcca gcgatgttat caagacactt gcattgaaca tccacaaaat 180
caacaagtat gttggcaacc ctgaagccaa tgaggaaaac gtaattttta aggagaaca 240
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caacaacagg caatacatat gtaagctgga caaagttgct gtccctgaaag cgatttggtc 360
atgattctag gaaacaactg atcctgctgt ttgtttgatc gtaaaagctc aaacaaatga 420
ttg 423

<210> 49896
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-F6

<400> 49896

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agggacagag atagggagag ggagagggag attgagaggt acagctagag ccatatcgat 120
gtcatagacg gcctctctgt gccaaaaatc acaattgtac ccttgcttgt cgatgctctg 180
cgttcaatga ctcatcttcc gttggatgta catcttatta ttgtggaacc ttagcaccga 240
gtccccgatt ttatcaaggc ttgtgctcat attgatagtg tccactgtta acagacattt 300
tccattcatt ttcaccgaac agtctatctt atttaaagtc tatgagccta gtcttgattt 360
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<210> 49897

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G12

<400> 49897

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gttaaaaaat tcaatgcatt gtatgaacaa ttttatttaa tgagttcaag agaagacttt 180
attcttgcac aatttgtagc acgttgtaaa ctctgtctca caggtatttg ctacacatgt 240
cgtacattta aacatcttac ttatatattc tcattttaac t 281

<210> 49898

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G3

<400> 49898

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gtcgataact gtcacacaac tgctcgtttg ggatctagga agtgggcacc acgcttcgat 180

tacatcttga cccaacaggc gtttgtgact gttgacaaga aagcaccgat caaccaagac 240
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aggcccaactg ttgacatctc agtgaccgct gatgctgatt tcgtgcgctc agagcttcga 360
cagtcttcat aagcttgtat ggatccgcag tgtgactgca atggctagtt tgcaagaact 420
taatatgcct gggcttttg 439

<210> 49899
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G7

<400> 49899

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gtcgggtctca ttgcggctag gaggactgga aggctcagag gccaggctgc tgccacagcc 180
tccaaggctg acaaggctac ctagagtatt gttgttcttg ttttatttat ccctctgctg 240
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gtgtcagctt ttgtgggtctc tatggattat gaagtatgcc taaagaagtt ttttgggtgct 360
caat 364

<210> 49900
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-A1

<400> 49900

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tacctatcct accttaccac ggtgcttttt cttgacaata tgaaacctt ttaaaatgtt 180
cacatacttt tccaacccaa atacttcgtt gaattaatca ctcatcagaa acaaacttcc 240
ctatactttt gtcaacata 259

<210> 49901
<211> 507
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 49901

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gngctgataa cacatgagcc aagaaccttt acatcatttc tgtgatggga atcaaggggc 180
gctctataca gtcttatttt tgtctttgtt tggttacattg ttatagtatc ttttataata 240
tgtaattttt tctctttttt atatagttac ttctctcttt cttatttttt ttatcatact 300
ataatttttt tctactcttt tataatttta ttactattta ttggtgtttg ttgtattatt 360
tctatactat ttttatttat ttcttcttat tcataataat tattatttat tttattattc 420
atttttatac tattttattc atcttcatct ttatttcttt ataataattt ttattggtat 480
atatattctt taattatatt atattat 507

<210> 49902
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-035-Q1-K1-B3

<400> 49902

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ctgcgaacan gncgnctggg tgccgggggca agttcaggtg cggctccagc tgctcctgcc 120
gcagctgatg catctgctgc ggtatgtacc ctgacgtgta gaccgacttc cccaccttcg 180
tcaagaccac tgtcctcgct cagctgccgc ctctattcag gatccaatct ttcttacgcy 240
tgcttgcaac tttatatttt ttctatattc ttacataaat ttaatttatt ggccttcatt 300
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<211> 171
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 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-B9

 <400> 49903

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 <210> 49904
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 cttgactgcc ttcaatggca gctttgcagc tcgacatctc ttggacacag caactgcgcc 180
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 <211> 152
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49905

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 <210> 49906
 <211> 339

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-035-Q1-K1-D2

 <400> 49906

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 cgtcaccctc gctgggatcc tcggcgggcg cgccctcctc gtctacaaca ccagcgccct 180
 ctccggctaa ggatatccaa tgcattgcgt tcttgcgatt cgtcatgtaa aatcaggggtg 240
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 tactcttcat tacataattd ggatgctata tatataaaa 339

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 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-D5

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 tgctgccctt gcatcttctt tatttagtta tcttttttct tttctttttt ttattatcta 180
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 tctttctatt ttattatctt ttctt 265

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 <223> unsure at all n locations
 <223> Clone ID: LIB3078-035-Q1-K1-E6

 <400> 49908

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cgcctcaggg cctgccgccc ctccggccgcc gcgcctcctt ctttgccgtc gtctgettca 180
 ngangaagat caagaccgac aagccctacg gtattggggg tggcttgtct tttactttga 240
 taccatttct tgagagtgcg tttatgctac taatgatttc atttatttct atctatttaa 300
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 <213> Zea mays
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 <400> 49909

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 attatttatt tttctaataca agctcgtaca ggcttattgt gcacagacaa attaattgtt 180
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 ccaaaaaata ggcagttatc aaattnaaaa ata 273

<210> 49910
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-036-Q1-K1-A9
 <400> 49910

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 aagggaggct gctgtgggtca tacaaggctt aaaaaagatg ggtgttcac cagttatggt 180
 cactggggat aactggagga ctgcacgagc agttgcaaag gaggttggca tcgatgatgt 240
 cagagccgag gttatgccgt ccggaaaagc cgatgtaatc cactccctgc aaaaggatgg 300

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337

<210> 49911
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B2

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atctattgtc tgccttttat ttttatatct aatatctcat tatttttctc cactttttta 180
taatcattta tattttattt catttttagt tttatttttt ttattttttt tattttttta 240
tttttttttt attttatttt tttttttttt ttctttcttt tttttttttc tttttttttc 300
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<223> unsure at all n locations
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cacgttgctc gtccccctct catcctgctt tatctgctta tttaacctta taatctcatt 180
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ttattttttt tttttttata ttcttttatt tatttt 335

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B5

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aaag 424

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<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-D12

<400> 49916

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agcagccact ctatcaactc actggctgct tgaatgagca tgccaacctc aagggcccca 180
gtgttatcaa cgatatcttc attatactga ccctgggtat tatcgagca ggcattgata 240
atatgcacca ctgtaacgag catatgaaga ctaggtcctt ctatgacatg cttgacaaag 300
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<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-D2

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ttcaatcatt cctctcctaa gaaacttcta ctcttctaca tttccttctt ctttacatct 180
tctttcatta tattttcttt atcttcattt tttattattt tttattatta tattttttta 240
tttttaatat tattattttt tttatatattt attttatatt 280

1. *Phragmites australis* (Cav.) Trin. ex Steud.
 2. *Scirpus americanus* L.
 3. *Spartina patens* (Muhl.) B. & P.
 4. *Distichlis spicata* (L.) Nees
 5. *Eleocharis acicularis* (L.) Rostk Schmidt
 6. *Eleocharis obtusa* (L.) Nees
 7. *Eleocharis tenuis* (L.) Rostk Schmidt
 8. *Eleocharis palustris* (L.) Rostk Schmidt
 9. *Eleocharis acicularis* (L.) Rostk Schmidt
 10. *Eleocharis obtusa* (L.) Nees
 11. *Eleocharis tenuis* (L.) Rostk Schmidt
 12. *Eleocharis palustris* (L.) Rostk Schmidt
 13. *Eleocharis acicularis* (L.) Rostk Schmidt
 14. *Eleocharis obtusa* (L.) Nees
 15. *Eleocharis tenuis* (L.) Rostk Schmidt
 16. *Eleocharis palustris* (L.) Rostk Schmidt
 17. *Eleocharis acicularis* (L.) Rostk Schmidt
 18. *Eleocharis obtusa* (L.) Nees
 19. *Eleocharis tenuis* (L.) Rostk Schmidt
 20. *Eleocharis palustris* (L.) Rostk Schmidt
 21. *Eleocharis acicularis* (L.) Rostk Schmidt
 22. *Eleocharis obtusa* (L.) Nees
 23. *Eleocharis tenuis* (L.) Rostk Schmidt
 24. *Eleocharis palustris* (L.) Rostk Schmidt
 25. *Eleocharis acicularis* (L.) Rostk Schmidt
 26. *Eleocharis obtusa* (L.) Nees
 27. *Eleocharis tenuis* (L.) Rostk Schmidt
 28. *Eleocharis palustris* (L.) Rostk Schmidt
 29. *Eleocharis acicularis* (L.) Rostk Schmidt
 30. *Eleocharis obtusa* (L.) Nees
 31. *Eleocharis tenuis* (L.) Rostk Schmidt
 32. *Eleocharis palustris* (L.) Rostk Schmidt
 33. *Eleocharis acicularis* (L.) Rostk Schmidt
 34. *Eleocharis obtusa* (L.) Nees
 35. *Eleocharis tenuis* (L.) Rostk Schmidt
 36. *Eleocharis palustris* (L.) Rostk Schmidt
 37. *Eleocharis acicularis* (L.) Rostk Schmidt
 38. *Eleocharis obtusa* (L.) Nees
 39. *Eleocharis tenuis* (L.) Rostk Schmidt
 40. *Eleocharis palustris* (L.) Rostk Schmidt
 41. *Eleocharis acicularis* (L.) Rostk Schmidt
 42. *Eleocharis obtusa* (L.) Nees
 43. *Eleocharis tenuis* (L.) Rostk Schmidt
 44. *Eleocharis palustris* (L.) Rostk Schmidt
 45. *Eleocharis acicularis* (L.) Rostk Schmidt
 46. *Eleocharis obtusa* (L.) Nees
 47. *Eleocharis tenuis* (L.) Rostk Schmidt
 48. *Eleocharis palustris* (L.) Rostk Schmidt
 49. *Eleocharis acicularis* (L.) Rostk Schmidt
 50. *Eleocharis obtusa* (L.) Nees
 51. *Eleocharis tenuis* (L.) Rostk Schmidt
 52. *Eleocharis palustris* (L.) Rostk Schmidt
 53. *Eleocharis acicularis* (L.) Rostk Schmidt
 54. *Eleocharis obtusa* (L.) Nees
 55. *Eleocharis tenuis* (L.) Rostk Schmidt
 56. *Eleocharis palustris* (L.) Rostk Schmidt
 57. *Eleocharis acicularis* (L.) Rostk Schmidt
 58. *Eleocharis obtusa* (L.) Nees
 59. *Eleocharis tenuis* (L.) Rostk Schmidt
 60. *Eleocharis palustris* (L.) Rostk Schmidt
 61. *Eleocharis acicularis* (L.) Rostk Schmidt
 62. *Eleocharis obtusa* (L.) Nees
 63. *Eleocharis tenuis* (L.) Rostk Schmidt
 64. *Eleocharis palustris* (L.) Rostk Schmidt
 65. *Eleocharis acicularis* (L.) Rostk Schmidt
 66. *Eleocharis obtusa* (L.) Nees
 67. *Eleocharis tenuis* (L.) Rostk Schmidt
 68. *Eleocharis palustris* (L.) Rostk Schmidt
 69. *Eleocharis acicularis* (L.) Rostk Schmidt
 70. *Eleocharis obtusa* (L.) Nees
 71. *Eleocharis tenuis* (L.) Rostk Schmidt
 72. *Eleocharis palustris* (L.) Rostk Schmidt
 73. *Eleocharis acicularis* (L.) Rostk Schmidt
 74. *Eleocharis obtusa* (L.) Nees
 75. *Eleocharis tenuis* (L.) Rostk Schmidt
 76. *Eleocharis palustris* (L.) Rostk Schmidt
 77. *Eleocharis acicularis* (L.) Rostk Schmidt
 78. *Eleocharis obtusa* (L.) Nees
 79. *Eleocharis tenuis* (L.) Rostk Schmidt
 80. *Eleocharis palustris* (L.) Rostk Schmidt
 81. *Eleocharis acicularis* (L.) Rostk Schmidt
 82. *Eleocharis obtusa* (L.) Nees
 83. *Eleocharis tenuis* (L.) Rostk Schmidt
 84. *Eleocharis palustris* (L.) Rostk Schmidt
 85. *Eleocharis acicularis* (L.) Rostk Schmidt
 86. *Eleocharis obtusa* (L.) Nees
 87. *Eleocharis tenuis* (L.) Rostk Schmidt
 88. *Eleocharis palustris* (L.) Rostk Schmidt
 89. *Eleocharis acicularis* (L.) Rostk Schmidt
 90. *Eleocharis obtusa* (L.) Nees
 91. *Eleocharis tenuis* (L.) Rostk Schmidt
 92. *Eleocharis palustris* (L.) Rostk Schmidt
 93. *Eleocharis acicularis* (L.) Rostk Schmidt
 94. *Eleocharis obtusa* (L.) Nees
 95. *Eleocharis tenuis* (L.) Rostk Schmidt
 96. *Eleocharis palustris* (L.) Rostk Schmidt
 97. *Eleocharis acicularis* (L.) Rostk Schmidt
 98. *Eleocharis obtusa* (L.) Nees
 99. *Eleocharis tenuis* (L.) Rostk Schmidt
 100. *Eleocharis palustris* (L.) Rostk Schmidt

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<211>	216
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<213>	Zea mays

<400> 49919

<210>	49920
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<212>	DNA
<213>	Zea mays

<400> 49920

21384

1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed.

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 ttcataatth gtcttttggt ttcattatth tttttgtgtt atgctcttat ttttattttt 360
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<210> 49928
 <211> 350
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 <223> Clone ID: LIB3078-036-Q1-K1-G4
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 accatgagca ctattgagga agctgataaa gccattgaga tgttcaaccg ctatgacatt 180
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 <400> 49929

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<211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-A6

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 tatgcactgt cactgaatct tttaagactc tttcatgatg caatcaagca gtcacacca 180
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 <211> 76
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-B6

 <400> 49931

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 agaaccatga tcaaaa 76

<210> 49932
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-B8

 <400> 49932

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 agttaaggg agttcgtatg acagttcctc tggagatgtt atcttcaaag tcttatatca 180
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258

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<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-037-Q1-K1-C7

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gggcgcgtcc taggggctcn ctagcaccag ttanntcgtc cgtctnacca gcttcgcnnt 180
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<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-D1

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aatgcacagt cgctagctga cttcgccaag caactctctg acgagcgcaa gctacgcaag 180
agcaatctca actccaacta ataaatacct ctctcagtca cagcatgtgc tctttccgca 240
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340

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<212> DNA
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<223> Clone ID: LIB3078-037-Q1-K1-G1

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cgagcacctg atgtgcgaga tcgaaggaca gcatctcagc gccgccgcca tcgtcgggtca 180
cgacggcagc gtttggggcg agtccgagag ctcccccgag ttaaagcctg aggaggttgc 240
tggtatcata aaggactttg atgaacctgg tactcttgca ccaactgggtc ttttcggttg 300
aggtacaaag tacatgggtga tccaagggtga acctggagtt gtcacccgag gaaagaaggg 360
cactgggggc attactatca agaaaaccgg catgtccttg attattggtg tctacgacga 420
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<210> 49936
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<213> Zea mays

<223> unsure at all n locations
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<400> 49936

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cgccctctac cgggttctcc aaccccatcc ctcaatcgcc acgcctcnnt ccgactccnn 180
ccgggcctcg cgcctcgtgc ctcnngcgt cctgggacct tcacacctgg atgatcccat 240
tgtanntcat tatcagcacc aagccacca cactatattt cgttttccct gggtnctggt 300
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<213> Zea mays

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ggggaagtac ttcgcaggca tcgccaagaa gctcaagggc tcagcctgat ctacacatat 180
acccttgctg gatatacataa aaaacactta ttacagattc gtcttaccba tcaatagatc 240
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<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-A10

<400> 49938

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cggacgaacc tcttcatact cggtttcttg cggcgcttct ctaagcctcg cctcggctta 180
atggggcctt ttggaactca tcgcgggatc tgcttgagtt gacaaagcat ggcactctgc 240
ttctcgccat tcttgatc tttgtcggga caatcatgcc tatatcattg actggccttt 300
taatcttcat gttctttctg ctaattgcc cttctaata 338

<210> 49939
<211> 331

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-A3

 <400> 49939

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 ctacagaaaa ataactcctt tcttcatccc atatgctata acaaacatgg gttctgcctt 180
 gcttggaatg gatattgggt tcatgggtcc aaactactcc atctcaactg cctgtgctac 240
 ctcgaaactac tgtttctatg ctgcagcaaa ccatatccgt agaggcgaag cggatataat 300
 gatagctgga ggcactgaag ctgcaattat t 331

<210> 49940
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-B12

 <400> 49940

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 acatccgctc caactgggat ggaaattgag tttgtggaag ttcgtaaaca tgggctgtgg 120
 cttttggcta aaaatgtgaa acagtatatc cacagaatac ttgttgaggc tgacttcagt 180
 gctggaactg gtgatgattt atgggctgct gtgggcgaag ctggtaaaaa cctttacgct 240
 taaggcgaat tcaaagagtc gcaagttgca aaccttgatg tctatttggt gaaaaaggg 300
 tggacttttc cctgatgtta taaagaagaa aacattgcgc catcttgaaa aatgagataa 360
 tgtcttaac 369

<210> 49941
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-C10

 <400> 49941

<400> 49944

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tcgggcgata tcaagtactt ctaccaggcg cggaggagcc agcgcgggct ggcgggtggcg 120

gtgggtgggcg acaaggtgcc gctgtacggc ggcggttcgg gcctgagcag caccgcgact 180

acgctgccgc cgcccaggaa gcgcgcgccg gcgggtgggtg tgcttgctga cgccgtgccg 240

ctgcagctgg cgggtcgggct gcggtcgcgc gcgttcgtgc tgggcaggct cgtcgcccc 300

aagttctaca ccgaggcgcg gtgccgcgtt accatggacc agaccaggct cggcaggccc 360

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<210> 49945

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-D7

<400> 49945

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gcaacaacct gtcaccgtc atctccggcg ccgccgagag gacgcccagc ctgtgaggac 120

gcgccacaag ccggcagcga tgccaagtca tgcgtgctg ccgtccttga ttttaccggg 180

gaaagagctg tgtgtgaggg tctgaagtga agaacgtgcc atgcccatgc gtgtacatta 240

tcgagagggg gaagaaacct tctcattctg atctctgata tgactgctgc ttcagattgc 300

gcctgagata tgctaagttt ttgaaagcta attagttcgt gcacattaag ggtgcgtttg 360

agttggatta tttgtgaatg ctagctnatt ttaacttaaa a 401

<210> 49946

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-E1

<400> 49946

tgcaatcaca acgaacaaaa gctttcgatc tcaccgaccc cgaggaagaa gagatcaatg 60

gcgtncgaac agggagtcgt gatcgcgctgc cacagcaagg ctgagtatga cgcccacatg 120
 accaangccc cangaagccg gctagctggt ggtcattgac ttactgncg cctgggtgcgg 180
 tccatgccgc gccatcgnc cactgttcgt cgaacacgcc aagaagttca ctcaggtcgt 240
 gttccttgaa gtggancgtg acgaagtga ngaagtcacc gctgggtacg aggtcgaggc 300
 gatgccgacc tttcacttcg tcaagaacgg caagacggtc gcgaccatcg tgggt 355

<210> 49947
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-E7

<400> 49947

ggctgatggg gattgtggat ggtgggtgctg gcatagttgt gttacgtttc ttcgatgcgt 60
 gagttcatgg agagatgtca catcctagtt cgtcgtcacc gtttgccatg ggtccaatgg 120
 ctgctcttgg aaacctgcac ttcagtaggc catctatcgt ggtttctagc tatatccaga 180
 gttttgtgct aagacaaatc agtcagtcgt tttgtgaacc tattatgatg gagctttatt 240
 tgctgctaaa aa 252

<210> 49948
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-F9

<400> 49948

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 ttctcacatc atatcttgcc aataagggca tacgtatgaa aataaaacgg gctacgtttg 120
 tatacactta taccgtgtta ctatgttagt gaaatagtga agtaacatca tttgggaacc 180
 ttgctatgac ttatgagctt attctccttc t 211

<210> 49949
 <211> 247
 <212> DNA
 <213> Zea mays

556760 " 4445555

<223> Clone ID: LIB3078-038-Q1-K1-G11

<400> 49949

aattcccag tgcacggcac gcgtcacgct tgagtacggc cattacattc acgctcttat 60
 ccttccccta tggttaagta ctcacaggag cgggtctacc ctaccaaagg ggccaacgcc 120
 attggaaggg acctgagggg ccactttaag aacacaaggg agacagcttt tgcgcttcgc 180
 aagctgcctt tgaccaaagc taagcgatac cttgaagatg ttatttctca caagcaagca 240
 attccct 247

<210> 49950

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-G6

<400> 49950

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 tgagaacgag cagtaccagg acaaaatgag gcagtcagat gaacggctcc tggccctggg 180
 caaggcggcc atggacgtgg tcgtggccgt cgggcttctt cagctggcgc ccaagaaggt 240
 cactccgaga gtgacaggag cctttggggt cgtcacctcg cttatctcct gctatcagca 300
 acttccttac cgcgctcctg ttgccaaagt caaagtttga gaggtgtcgc cgtcctagta 360
 aaaaaaaaaag aggcgacgct ggaaatcgat ctctgcttca acaatggatc gtaatataat 420
 tgtattatgc gaatataagg cangctagct atgtattntt ttattaaaaa atagtacaac 480
 agaatagaac acc 493

<210> 49951

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G7

<400> 49951

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cggaattccc gggtcgacgc cacgcgtccg gtcgctgttg actggtttaa agatgcaaag 60
cgaatggatc atgttgctag aagaaagggc tgtgcagttc aagtagcggc tgagaagggg 120
ctctttgcat tggctataaa tctacaagtt cctggcacta caaactacag tatggttttc 180
tactttgtta cgaagaaact gataccaaac tccttattgc aacgctttgt ggatgggtgat 240
gacgaatttc ggaatagtag gttcaagttg ataccatcag ttcctaaagg ctcatggatt 300
gttcgacaaa atgggtggcag cactacttgt ctattatgaa aaagctgtga cattacctat 360
atacgtagct caaatta 377

<210> 49955
<211> 288
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-039-Q1-K1-A2
<400> 49955

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ggctgctgga cgcgtccac cgcgcccgcc tgctgtcccg cgcgggggcg ctgaacatcg 120
tgccgacgag cacgggccc gccaaaggccg tggcgctggt gctgccgcat ctgaaggtga 180
agctgaactg catcggtgctg cgggtgccga ccgcaacgt gtccgaggtg gacctggtga 240
tctacaccgt gaagactggc atgacgggtca aggacgtgaa cgcggttt 288

<210> 49956
<211> 298
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-039-Q1-K1-B12
<400> 49956

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gtgcagggga cgcaaaataa cacacgatgg tgtgttgctg ctctagtggc cggaggtccg 120
tcagattctt cctttttttt tgtcccattg ttgagacagc aaccgaggat ataagattgg 180
atggagatga ggtctctggt tggcttgtgc tgatgcctgc atgatgtgct ctgcgatgtg 240
catccagttt tgggatcaag ctgctccact tttccggagc tgcccttgca tggatttt 298

<210> 49957
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-B6

<400> 49957

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 gtaagggtgaa gaaacattcg attcatcatt ccgtggccat gctaataag ttgtggagga 120
 aagaattgct gacaatgatg taattctggt aaaaggccca aagaccacca acgcggtctt 180
 aatattacta agggcccaaa atgcctactt ccttgtaag attgaacggt ccttgcataa 240
 tgccctgtcc atgtgaaaga gaaccttgaa atcaaataatg gt 282

<210> 49958
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-C12

<400> 49958

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 aacccgagcc ttgtccactc tcagaggatc cgggctatct ggtcttgcca tgagggtgctc 120
 atgggcgcca tcaaggggta ccgcgtctcc tatattcttg tcgactagta cattcatctt 180
 actatgcgct cttctcagga cttgaatggt agacttactg tttattttta aggagaagaa 240
 tgaattgatg ctgttgggct gacaagggaa ttgttccaat catttttact agtcattttt 300
 ttcaaaattg ccctttttt 319

<210> 49959
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D1

<400> 49959

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ggcacagagg tgcgacgtac gacgagtacg actcatgcgc cacacatggc atcccagctc 120
 tccgccgccc tgccccgggt ccacggcctc cggggctacg ccgcgcccag gtccgcgggtg 180
 gcagcgtgc cgtccgtgag ggtgggcagg aagaggctgt cgtcgcacgg catccgctgc 240
 gactacatct gtcctgtcac caacctgac atg 273

<210> 49960
 <211> 294
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-039-Q1-K1-D11
 <400> 49960

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 tgctcggcct cgtcgcgtc gccttcacgg attgcgtcac cggcgcaccg ttcacaaacg 120
 cgtataggcg gttcagtcga agccagtgtc tatatatttt ggaagttgga actgtgtatg 180
 ctagtcagct atagcggcac catgcccgtg gtacgagcct agctacagtt ggacgagcta 240
 ctttttattg ggatttacta gtcttgggcc atttacttct cttcttatta aaaa 294

<210> 49961
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-039-Q1-K1-D9
 <400> 49961

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 gatggcgctt gtcgacgcgc gcttgagaga gagtgcctcc tgcacccgcg tcatccccga 120
 cttcatcaaa ccagggatca tgtaccagga catcacgaca ctgctgctcg accccaaagc 180
 gttccgtgac accatcgacg tcttcgttga gcggtacaag gaccaaagga tcaccgtagt 240
 tgctggtgtg gaagctagag ggttcatttt tggctcctct atcgtcttag ccatcagtgc 300
 gaaatttgta cttttgagga agcctaaaaa atttccaggc gaggaaatct ccgaaaaata 360
 ttctcttgaa tacggaactg acaagataaa tatgcatttt ggagctttac 410

<210> 49962
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-E9

 <400> 49962

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 caccttccgc agccatggca tcagtaacgt tccgggcggt cgcgccgagc gagggataat 120
 cacctgacgg caggacaact attcctcgta cgaccgtacc gagctcacca agcctatgta 180
 cgtcttcgtc cggggcaagg tctacgacgt caccttcggc cgtggcttct acggccccgg 240
 cggcgcctac gccgtcttcg c 261

<210> 49963
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F10

 <400> 49963

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 ttgcaccaca aggtcgagga tgtgtggcag ctgcggatca agctgaggct gctgctcaag 120
 ctgcaagtgc ggcaagaagt accctgacct ggaggagacg agcaccgacg cgcaagccac 180
 cgtcgtcctc ggcgttgccc cggagaag 208

<210> 49964
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F5

 <400> 49964

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 cttatagtgg cacagttatg tgtgtaacta ccgatcgtgg aacggcctaa tgtatttcgg 180
 ttgcctcaga tcgatctata tgtgcgtata cattatgtac tgaaaagtgt gtagcgtctg 240

gttaatgtat gagcagtgtg tatgtgaccg ggacccggtg tgtagttgct attactacca 300
tatccggtga atgatcaaac cttttggtgt attaaaacta gatgttcac ccaaaa 356

<210> 49965
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G10

<400> 49965

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aacgactgac tgatttgtct tagcacaaaa ctctggatat agctagaaac cacgatagat 120
ggcctactga agtgcaggtt tccaagacga gccattggac ccatggcaaa cggtgacgac 180
gaactaggat gtgacatctc tccatgaact cacgccatcg aaaaa 225

<210> 49966
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G12

<400> 49966

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gagcggatcc accggagcaa cttggtggcg gtggggatca ttctgtctg ctttcaagca 120
agagaggatg ccgattcact cggcctcacc agacgtgagc gctacaccat ccaccttct 180
accagcaccg gcgagatcag tcctggtcag gacgtgaccg tcacgacca cgactgaaga 240
tc 242

<210> 49967
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G2

<400> 49967

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tgtccgcaag aatcttcacg gaggggtcta tagcatggag agcgtcgagg gcgacagcaa 120
 gtcggccagc accgtccggc tcctcaagta caccgaggcg gtgccgatgc tgacgttcgc 180
 caaggagaag cttgagacgg cggacgacga gaacaagggtg gcgctgtaca gcgcggtgga 240
 cggcatagct ggcggatttc tacaagaact tcaagatcac gctgaagggtg actcctgcta 300
 aggctgac 308

<210> 49968
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G7

<400> 49968

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 ccacagcatg caccaccatc acgtaggggg gcgacactcc tgtggttatg ccgcacctgc 120
 ccgttcacgg ccaactccgtg ccgcctgtca ccaagccgcc gcccgtagac gttcctgagc 180
 acaaaccggc gccggtgccc gtgccggacc acaagcctcc gtcgacaccg tctgtcgacg 240
 ctctgagca cataccggca cctgtgcccc agccagagca c 281

<210> 49969
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H2

<400> 49969

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 aataaggctg ctgcactagc tcgggccatc gatcttgag agtcagcttt tgtagacaaa 180
 gaatagtgtg ctatggttat cgtttagttc ttgttcatgt ttcttttacc cactttccgt 240
 taaaaaaaga tgtcattagt ggggtggagaa aagcaataag actgttctct agagaaccga 300
 agaaatatgg aaattgaggt tatggctt 328

<210> 49970
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-H3

 <400> 49970

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 gacaactttg gtgacaagggt gaagaattgg ttgaccttta atgagcccta tacatttact 180
 tcattttcct atggaaccac tgtctcatgc cccatgacga tgctcacctg tactagactg 240
 taccatctca actgataatt cactcgtcta accttacatt gctgaccaca acattcttct 300
 agcccacgct taggctggtg atctttacta caagta 336

<210> 49971
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-H4

 <400> 49971

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 aggccaacta cgcctgcagc tactagctag gcctcgcgca tcatcagcgt ataacgtacg 120
 cagcgaatgt tcgttatata attccatacg tatatgggtg tgcaagggtc agaccgacca 180
 gctgtatgtc ttcategttg ccttcgtttc tgcgtcgtcc tcccatgcat gtttatgcat 240
 gatgccgtgc cgtctcgttg tcagctggtt cagtagtgat gcttactttc ttgtcgttgt 300
 tgctaattga agaaataaga cgatgcgttg actgcttaaa caaaaa 346

<210> 49972
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-A1

 <400> 49972

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 tttcatgaga ataagaccaa cgattttaga ttgctggatg cgaatgggtt ttgacaactg 180
 atgcctgagc ttgagtattt tgagactgta ctgcacacgt acttctcacc tgaggcgcaa 240
 caggctatga aatctttaca agagaattag ttggaaaagg cctgtgaatg tgttgcagaa 300
 gccatggaaa atcctggaca ccaacttcga ccaaccctgg gcagtgaaga tacagcatcg 360
 gatgacagac agccattcat atcacctggt gatttgcttg ggctt 405

<210> 49973
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A7

<400> 49973

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 gatcaaccat atgaactata actaggcgcg cagtttgcgg tcaactaaca atccacctat 180
 agcagctata cttcaggtcc acgttcatca acatataatg gcacagaggt tgaggagcct 240
 gacgacaaag atatctacgt aaactattac atcgaccata gctgcttcaa caccgatat 300
 gcatgcctga cgagaactta catccaaatg ctagcgcatg gctaggaatc atcatcttga 360
 gca 363

<210> 49974
 <211> 521
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A9

<400> 49974

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 tgcagatctc tgttctcccc ctgcagacaa tgcacaaagg aagagggaat cttataggctc 120
 tgctctgcat gactcgcgca ataaatttcc aaggatgcaa tcacaatccc aaggcatagg 180
 aagtgtgca gggaaagccc taattccacc gcagcttcgt ggaaggagca atgttggttac 240

cgaagacatg agcaaactct ttgtggctaa acgaaaagag tagcatctta accttttctg 300
gacctgaacc tctgtttgga ctccatagac tgataaacgc atgtactgag tgcaatggat. 360
gtgccggcat gatccaaggt tgttgctgaa tcctaaagaa ccggacgaag gatgctaacg 420
gtaggacaac ctgggtctctt agcctaccgt gggctgttgt cagatgtcaa aaatgccttc 480
ttagaaaattt agaacatttc tttggtgctc actcgcgttt c 521

<210> 49975
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B11.

<400> 49975

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ggcttcttat ggcaatggat acatggctgg aaacttttagc gacagtgatg aagattatgt 180
taattctact gtgctagaag cagttgatgt gagaagtgga tcggaaggat atgtgataaa 240
gatgcgagat gggaaaaact tgcgttgtgt ccataacaat tctcaaggga gaaatattcc 300
agagagtgca ccctaacctg taattgtttt gaggattgaa gatggaagcg aaactttaac 360
ttccaatcat tgttttgag attccaagt tacttctgat ggctgctatt cgtaatgtcc 420
acatttcacg accaaccata tatcaagt 448

<210> 49976
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B12

<400> 49976

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cagtctatcg aggcaccgaa aacgaacaac tgggacggcg tcttgggaaa ctgagatcgg 120
gcctatgggt gcaacgagtt gaatcatata gaagaagtgc aagggctatg acctatggga 180
gtttgcttgc cttttgattc atcaaaaata agattgcggc cagataccgc ctttgggtggc 240

aacttagggg aagctgtgaa gaagaaactg ctgggcctct cttgcttttc gcagctttgc 300
 cttgatgtac ctgcgagggc catggcccat gacagtggta ggTTTTTctt taatcgcaac 360
 tgtaagggtt ggtgaagaac ggTTTcacag tgcactgata tatatgtagc tgcttgc 417

<210> 49977
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B7

<400> 49977

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 tgtcccaatc gtgatgggag tggacgtgcc aaagtccctt tttgagatca accagtacaa 120
 ggTTTTTgga ctgacaataa acccagcgat ccttcatgcy attagaaaga ccagggccaa 180
 gactctaggt tttgatgggc gtcagagcaa ttacgctgag atggaccatg tgaggcagga 240
 actggtccat gcgaatcaaa tctttgctca gaatccatcg tggccagtca ttgcgggtcac 300
 tggaaaagct atcgaggtaa caactgctgt catcttgggg a 341

<210> 49978
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B9

<400> 49978

tcgtctgaa ttcccgggtc tgccgctctt acggcggcag cagggtcaaa ggactacgta 60
 cacgttcgca tccagcagcg taatggtcgc aagatcgtga ccttcgaaca gggattgaga 120
 gaaggagttc agctacagca agatcctcaa agatctcaag aaagagttct gctgcaatgg 180
 tacagtggtc caggaccag aacttggaac ggatcattcag ctccagggtg atcagaggaa 240
 gaacgtctcg aatttcctcg tccaggccgg cattgtgaag aaggagcaca tcaagattca 300
 tggTTTTtga gcaaccgcct tgtccatagc aaaccaacce tgcattcatg gccagcttat 360
 tatattttaa tatctgaggt gtatcatatc tatctggctt tg 402

<210> 49979
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C10

 <400> 49979

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 aaccgattcg gaggtagatg cagcgcagcg tagactctgg atctgttcca agcggaggag 120
 gaataaataa ttcggagcga gagggcgggg cttttctgca aattttgtaa aatggagttt 180
 tacgtatccc tctttcgtca attctcgcgc gaatatttta gcagtagcag tagtctttag 240
 gaacccagtc gggatcagta cctgggttgcg tttggactcg aatgc 285

<210> 49980
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C5

 <400> 49980

 gaattccccg gtcgactcac gcgtcccgctc acgcgtccgc tctgaccggt tattcagcta 60
 gatgagctca gtgtgatcac actaagatgg aatgacaaga gaactagtca tcaactccgtt 120
 ggaagtatgt atatttggcc agagggcggt ctaagtcac gaatagttga ctcttgaggg 180
 tatatacgct tacatacctg ctatcgcttc aactatgctt atagccacca tggctgcagc 240
 aacgacgac actgacgcta ccagtatccg tc 272

<210> 49981
 <211> 150
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-D3

 <400> 49981

 ggctcgactcc acgcgtccgc ccacgcgtcc ggactccacg cgtccgttca cgcgtccggc 60
 gagggccgcc ctgaggggggt attttttagga ccatgaaata ccatgtgtat ataaggatta 120
 ctacaaagag tacaaatctt aatattttta 150

<210> 49982
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-D5

 <400> 49982

 tcccggctcg actccacgcg tccgctccac gcgtccggac tcgctgcacg catgaggtgc 60
 cgaacggatc atggcaggtt aggggtagac cagatgataa gaaacccgtg gttagaaatc 120
 acatccaaaa caacaccggg tactcaatac caaacatagt acctatgac agtagcccca 180
 ctgggagttg cagagatggt gaagatgtaa gtgtgaacca agaaggggtg ggtattcagg 240
 ttgatataata attgaaccaa tatTTTgaca gTTTTgcga taactttggt caaacatac 299

<210> 49983
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-D7

 <400> 49983

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 agttatcttt cttcgcagct gagttattcg tgaacgggtga aatcgttcag cggtcgccag 120
 aaaggcagag aagggtggag ccagtgcctc agagagctca ggatcggcca cggtacagtg 180
 accggacccg ctatgtgaag cggagggaga accaatctta ccagagatga tgtctccggt 240
 tctggagatg gaaaatgcca gggTTTTccac aggtgtgcca tactggagat gcaggagcaa 300
 ccccactac ccacatgaga atgacatccg ttgtgtttgc tgcgctttct aagcttgaca 360
 agttgacatt gcttatgcgt ttgggcttgt acctctagtt gata 404

<210> 49984
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-E10

 <400> 49984

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 ggtgacgtgg ctgcagccca tgtgactgtc aggtgggtggc aacttttacgg cctctgtgga 120
 gcctgccctg gctgggactg ccgataaaga tggcagcagg agtcaaggcg cagtggccag 180
 tggggccagta acggtaaagt cgtgcgggtcg ggactgcgcc attaaagggtg ggtcctgcac 240
 gctcgctctg cagaattgat taaccgggcg tgctgtaaca gtatgggctt atccgagtat 300
 agtgactact ggtagtgaca gtggtgtgtg aaaaactgat aactctgggtg tttctacttg 360
 cttgac 366

<210> 49985
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E12

<400> 49985

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 tggcgatggc ttctgacgcg gctcacgtga aggcctggcg ccattacatc aaggagcttc 120
 tcaggacgac tcacttacac ccgatactgg tccgtctagg atggcatgat gctgggtacgt 180
 atgacaagaa tattgaggag tggccacaac gaggtggagc taatggaagt ttaagatttg 240
 atgttgagtt gaaacatgga gccaatgctg gtctgataaa tgctctaaag cttatccaac 300
 caatcaagga caagtaccct agtatcactt atgcagattt atttcagttg gcaagtgcta 360
 cagca 365

<210> 49986
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F9

<400> 49986

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 gctccacagc tgctccgtg tccgtgggtca gaacagcgtc gcgttaccaa tccccctccg 120
 tttccttcac agccgcggcg ctccccctcg cgcgtctgag gccggtagga gcgtgggtcc 180

gcgggtggagg gtacacctgc aggtccgtg ccgtccgcgc catgggctcc gcgccgtcgt 240
 cgtcccaatc cccgtcgctg cacacgcctt caggacaaac ccaagggaaa gcagattata 300
 aatcactgag tgaagaggag tggaagaagc gcctgactga agagcagtat tatgttactc 360
 ggcagaaggg cactgaaaga gcattcactg gggaatactg gaatactaaa ac 412

<210> 49987
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G10

<400> 49987

attcccggtt cggtcgagct tacggtttat cgtgggtctgt actttgggct ctatgattcc 60
 atcaagccag ttgtccttac tggcaagctc cattacaatt tctttgccag tttcgctctg 120
 ggttggctga tctaataatgg tgetggctctt gcattctacc ccattgatac cgtccgcaga 180
 aggatgatga tgacatctgg tgaggctgtc aagtacaaga gctccttggg tgcgttccag 240
 cagattctta agaaggaagg gcccaagtcc ctgttcaagg ttgcttgtgc taacattctt 300
 c 301

<210> 49988
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G11

<400> 49988

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 ttggcggttg atagtttccc gctggcgatt gttcgctgt cagttcatgt acgtatgtat 120
 gtgtgtatgc tactctgcgg tggctaatagc tttttctgat gcctctgtcg ttgtgtgttc 180
 atcaccgtcg tgtgcgattg ttctttgggt tgtctttgcc tcaataaaac tgcttcattc 240
 tccagtattc tatagatgag tgctatgtac tctgtacaac atagaacaga gtac 294

<210> 49989
 <211> 298

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G12

<400> 49989

attccccgggt ctgcccactc ttacacccac tcgtgcgctc acactacgta catcccttta 60
 gcctgcgaca cccttcctat ctacctccga ccacttcaaa cacgcaagta acaatccaca 120
 ttaacgtcta caccactaat gctcctcaac aaccctgct acttgaccga caatcatcac 180
 tccagcaaga tctagacttc tgccgctacc ccatacgagc tacagctcca ccttgagct 240
 gcctacacct caatccactc tacctactac ttccaacctt acttctccat ttccaccc 298

<210> 49990
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G5

<400> 49990

gagatcggcg cgctcgccag gcgtcctcgg tgttcatecc gcatggcccc ggagcgggcg 60
 cgacatcgcc acgcagatcc ggacggcctc ctgcaggatc ctctgtcgcc aaactactaag 120
 ctgcctgcct gctgtgccgc tgctgtgct gaagaacacc atcccactat tatatatata 180
 atataatgat gatcttggtta ccagagtgat gcttgtctat attgttcac actcatcgtc 240
 accatctgct aggatggcta tctttatgct tggggattgg agaaaacctt atctaacctt 300
 ttagggaacc ggtaatatat atataatgca gcatgagttt gcagtaaaa 349

<210> 49991
 <211> 483
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-040-Q1-K1-G9

<400> 49991

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 ccacgcgcgc cgctgcgcgc tcgcagctcg acgctcaccg ctcgccatt tctgaacaga 120

ctgagaaggc tttcctcaag cagccaaagg ttttcctcag ctcaaagaaa tccggcaaag 180
gtaagaagcc tggcaagggc ggcaaccgat tctggaagag cattggcctt ggcttcaaga 240
ctcccagga agcaattgaa gggacctaca ttgacaagaa atgcccattc actggaactg 300
tttctatcag aggcagaatt attgctggga catgccacag tgctaagatg aacagaacta 360
tcattgttcg caggaactac cttcactntg taaagaaata ccagaggtat gagaagaggc 420
actccaacat tctgtctcac atcttcccat gcttccgtgt gaaggaaggt gaccatgtca 480
tca 483

<210> 49992
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H10

<400> 49992

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aggggcaggc gaagcgactg tcgcgaggca aggccatggt ccgccatgac gctctccctc 120
tccacctctt tctctccat ccccgccgcc gcgaggacca ccgccgcac cctacgtcc 180
gtcgtccctt cccaggggat gcgtgctcg atgcgcaaga aggggttgca cccggagatc 240
tacgaggacg cgaagggtgta ctgcaacggc gagctggtgc tggtgacggg gggcaciaag 300
ccggagtaca cggtaggacgt gtggtccgga aaccaccctt actatgtctg cgacaccttg 360
gcgctcgttg tcatggacag ccagatcgag 390

<210> 49993
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H11

<400> 49993

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ttcgtccaaa taatcttctt cctgtcgtta tgctcccaga attcttatca atcgttcgtt 120
ccatcgttca tcgttcgac atagttccta tccatccttc atcgttcatt cataccaact 180

attcaccatc actatattacc cttactatatt accgctacta tttaccgcta cttttttacct 240
 atacttttcta ccgttactttt ttaccggttac tattttaccgt tactatattac cgttactttt 300
 taccttttact tttttaccggt actatattacc gttactttttt accggttactt tttactgtta 360
 ctatattaccg ttactctttta ccgttactttt ttaccgtatt tttttaccggt actatattacc 420
 tttactttttt accttttcctt tttatctttt ctatatttacc tatactttttt aactctactt 480
 tttta 484

<210> 49994
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H12

<400> 49994

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 gttttgtaca tgatgaagtg ctatccgggt gtgccggagc agacgttgag ggctcatctg 180
 ggttcgtttg gtgtttcggg aagccttgac ctccaatcta tgtacacttt atcaggtggg 240
 cagaagagta gggttgcatt cgcgaaaata accttgaaga tgccgcacat cattctcctt 300
 gacgagcctt ctaaccatct cgatctggac gctgctgagg cgctcataca gggcttactc 360
 atttttcatg aaggtgtgct gatgggtgagt cacgatgagc atcttatgac tggaagcgtg 420
 gacgagctta gcgttggtgt 440

<210> 49995
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H2

<400> 49995

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 gttcaggagc tatcacagct agcggcgact ctttttcaga tgatatcatc tcttacacca 120
 tcctacaagt actactgtag ctccagcatg atcctgctgc agctcatgca actgcatgag 180

ccggtctcgg aattccccggg gcccgcacga cacgacacca agtcgaggag ctcgagaggg 60
 caccaataat ggccggcggtg aactccagcg tcgtgggggt caagcccgcc gcggcagtg 120
 cgcaggccgc cgccgtctca tcgccggcga agcgggtgca gctggccgcy cccgagggcc 180
 gtcgcgccga tctgctcggc ctggcgggcg tcttcgtcgt cacggccacc accgggtcgg 240
 ccaagggcac gatcttcgat gaggacctcg agaagagcaa ggccaacaag gagctgaacg 300
 acaagaagag gctggccacc agtggagcca actttgcgcy cgctacacc gtggagtctg 360
 gcagctgcc a gttcccctac aacttcaactg ggtgccagga cctctccaag cgaagaaagt 420
 ccccttcac agcgactacc tcgagaatga gtgcaagggg aaagagaagt tcaagtgcgg 480
 ttccaacg 488

<210> 49999
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C11

<400> 49999

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 aaccagcac agaccatgca cgtctacatc atctatctga cacactcatg tacgacgtac 180
 ctctcacatt tgattgtcat actaacga 208

<210> 50000
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C8

<400> 50000

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 gaccgcaagc cgccggagcg cttcaggcgc agggaggata ggcttgctgg tggacaagga 120
 ggcccccgcc ctggctctgg tgctgctgct acagctccat ctccagcacc ggttgctgct 180
 cgcccatagg ctttagcttt tcgaccgtgt taagtcttct gccactcag tttcggagtt 240

gtccccctgtg cgtgtgtgaa gctgctatat tagagttact ttttgtctaa agtctgaaca 300
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 tgaatatctg aacaattgaa tatttcaaaa 390

<210> 50001
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-C9
 <400> 50001

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 gatgccaggg agtacttgta caggaagagg aagagagact cgtgtgattg tagtagaata 180
 gaatggaatg gaacgtaatg gattgcatgt gcaactgtaa gcagctgcaa actgcaatac 240
 ttgcagtgga gtgatggaca actcaattta taagcaacct 280

<210> 50002
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-D1
 <400> 50002

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 atcagttcaa gcaccgtggc ttatagaata actcttgcta atcatttcca gagttgtatt 180
 caatgtttta ttttgtgttc gtcttgattc aaggagccat gcaagagtgt atgagtttag 240
 ttcggctaag taattagctc atgagggcctt gaattatcgg ttctttttga ggattgatga 300
 tttgtgcaac tgaaaccttt gatcaattgc tcaatgtgag aagctaattt cttgtcaaaa 360
 aaaatta 367

<210> 50003
 <211> 254
 <212> DNA

gtcttctgga agccatgagg atcttttttac acagcaacaa acccacaat caccaaagca 180
 gtctttcgca gcaccaagtc tataatggcg taaaaatcca cagtagtagg cgagtccatg 240
 atgctgacc ccacgcgtcc gcaggaagct tggaaggtaa tgctggagca gttcaaggct 300
 gaggccctgc ggatgcaggc cctgtcaatg caggcatatg atgtc 345

<210> 50006
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D9

<400> 50006

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 cgatggtctt aacggctggc ttccatgtgc caggacctcg tagaacagaa ttgaagcctc 180
 accagagtgt tcacaaaagg cttcatcaat acctatttcg ctctgtcatg gaaaagctga 240
 tgatgtggtt gcctacaagc acggcgagag atctgctggt gccttgaaag caaatggctt 300
 ttccaatgtg ctcttcaagt catacaatag tcttgggcac tacactgttc cagaagagat 360
 ggatgaagtt tgcaaattga tcacagcaaa ttaggcgctc ggcacttact catcttgatt 420
 ggaaaat 427

<210> 50007
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E1

<400> 50007

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 aaccaccctg ggcagattgg caacggctat gcccagtgctc tggactgcca cacctcgcac 180
 attgctgtca agtttgcgga gctcattacc aagattgata ggcggtctgg caaagagctt 240
 gagaaggagc ccaaattcct caagaatggt gatgctggta tggatgaagat tgttcccact 300

aagcccatgg tegtggagac cttttctgaa tatcctcctt ttggtcgctt ttctgtcctt 360
 tacattatgc aaactgttgc tgtcggagtc atcaat 396

<210> 50008
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E2

<400> 50008

gaattcccg gtcgaccgac gcgtccggtg gtgtgcagat ctttgtgaaa accgttactg 60
 gcaagaccat cactcttgac gtggaggctt cagataccag ggacaatgtc aaggccaaga 120
 tccaggacaa ggagggcac ccccgaggac agcaacgtct tatctttgcc ggcaagcagc 180
 tggatgatgg acgcaccctt gcggattaca acattcataa ggagagcacc ctacacctgg 240
 tgctgcgct caagggagga atgcagatct tcgcgaagac attgactggc aagaaccatta 300
 ccttgagggt tgagagctcc gacaccattg ataatgtgaa tgccaagatc c 351

<210> 50009
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E3

<400> 50009

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 gccgtggcgg tggccgcgcc ctgcgcgcgc gggggcttcg gcgtgatcag gtccggcaag 120
 gtcgaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgccgac 180
 ggacgccgcg ccgtcatgct cgcgggtgct gcggcgcccg tggcagccat cggcggcgcc 240
 ggcgccgcca tggcggggcc caagaacggg acccccgagg cgaagaagaa gtacgcgggc 300
 atctgcgtca ccatgcccac cggcaaggct tgccacaact gagcacgcc gcgttgcatc 360
 tgcattggcg gggggtggt tataattaat gtacgtgcc cggagttggt ggccctattg 420
 ttggttcgag c 431

<210> 50010

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 cgatcattga ggttggttagg ggatgcatct gtgtccttcg agaaaaattg tgtcagggga 120
 attcaagcaa accacaagag aatttcacaa cttttgcatg agtctctgat gttagtgaca 180
 tctttgaacc ctaaaattgg ctatgacaat gctgcagctg ttgctaagaa agcccacaaa 240
 gaaggaacca cggtgaagga ggctgcatta gaccttgag tattaacgga gcaagaattc 300
 catgagcttg tcgttccaga gaaaatgatt ggtccttctg attgataacc ccatgttcac 360
 tatgtttctt tgaagcattc aggttgccac atccacgagt tctggtggcc ctgtgtttcc 420
 aagttaatga ttctagcgca tccataaata aagcaaataa tttttcatat 470

<210> 50013
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-G2
 <400> 50013

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 cgtcgcatca ggtccgatcc cctcgagtgc gccggcggcg ccaccaacca gcaagctgcc 120
 agagttccag atcgggtcttg gaacaattgt tgtccagtct agtaatcttc tttcacctca 180
 ggaggcacia cttgatggca atgtagtcac agatttgcca agtgatccta tattgcacia 240
 catgagaact cgaagggttc aagctgccag catgggcata tcagaatcaa gacaaaagca 300
 agtctacctt attttactga taaacaaagg cagagttgtg gccaaaggga agttagtgc 360
 tacagatagc caaagagata tattaggagc aaagcttgga ccataatatt gtgg 414

<210> 50014
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-G8
 <400> 50014

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atgcatgaga agttaaataca atttgagaac tgggacaaag caccacttcg cccttctact 180
 aactaaata cacaagcagc agcaagggttc attggacact cactttecca tctgacatct 240
 gatcagaaga ggagcatgca tgaaataagt agaggagaaa ggcggagttg gtctgggcag 300
 aagagaaagc ctgaaccttc aatagaaaag aagtctgttc gtgctgctgc agaagagttc 360
 cttgcaaagg cttctcaaga acttattgga catagtgatt gcaagggtcaa gggttctgtt 420
 atactaattt ctgatgaaga tgaagactag atc 453

<210> 50015

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-H10

<400> 50015

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 gaggatctcc acgtgagata ggaaggcgtg tgcagatgtc gccttatggg attgagttga 120
 ggaaacttgg aagttccatt acttgtctgt agtctatact ttatctagat gcgaagaagc 180
 ttgagataca cattgactac aatgtctttt gatgaataat accagacagc accgaaccga 240
 actcgtccta cacacggtag ctttgccatc taggtagtgc tgcgtgggtg gagatgggtc 300
 tgctgcctat aagtetaagg ctaatggcat ggatgacatt tatacaagct ct 352

<210> 50016

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-H12

<400> 50016

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 caatgacctt gtcgtcaagt tctcgaaggc tctttccaag actgcgggtc caatgaactt 120
 gtcacgcct gaaaaccctg atccattcat ttctgttcac cacgctatgt acgtatgtgt 180
 agcatatggt ttacatctac ctgttataac cccgagagct ggagaaacta gcta 234

<210> 50017

<211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H5

 <400> 50017

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 ggctcccacc aggacgttgc cgagtgcacg gccatgatct gcaggttcga cctcgacggc 120
 gacggcgctgc tcagcttcga ggaattcagg gtcatgatgg atgcatagct aacggattgt 180
 gttgtgtgaa tacgtgtgat tatttacttg ctgcttgttt ttgcctgtcg tccgaattca 240
 aacgtcaatt aattactact agtttgtttc tgtgtcaaaa 280

<210> 50018
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H6

 <400> 50018

 cggttacacg cgatcatgct accagcttca aaactaaacg aacacaggac gacacaaaca 60
 tgtttcgaac attacagaca aacttaaagg atcaccacga caggcaactt gatcaactaa 120
 acgatgcata taccctactt aacagtattg cagtcacata gatgcagagg atagcataag 180
 aggtcagcaa ggtgccatca gtgaggaaac tactggggaa ttaaacacaa agccatagct 240
 agatctac 248

<210> 50019
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-A8

 <400> 50019

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 tgtccagtgc gcgcgtcagg cgtgcttagc tagccgccat ggctccctc gccgccgtct 120
 ccgtgaagcc cgtggccatc aagggtctcg ccggcagctc catctccgga aggaagctcg 180

ccgtcgccag gccgtcggcc cgtccatcc gcaggccccg cgcagccgcc gtggtggcca 240
 agtacggcga caagagcgtc tactttgacc tcgacgacat cggcaacacc accggacagt 300
 gggacctcta cggctctgac ggcgcctcgc cctacaaccc gctacagagc aagttcttcg 360
 agacgttcgc ggctccgttc accaagagag gtctgctgct caagttcctg ctgctgggcg 420
 gcggctcact tctggcctac gtcagcgcgt cggcgtcacc ggaccttctg ccgata 476

<210> 50020
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-A9

<400> 50020

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 ggatgcaaga atctgaggaa gctggagatt atagacagtc catttggtga ttttgcactc 120
 ttgggaaatg ttgccaaata tgacacaatg cgatcccctt ggatgtcatc atgcaatgtc 180
 aaattaaagg g 191

<210> 50021
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B11

<400> 50021

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 attgagaatt acagaaagaa atatgggat ttgctgtaca cttatctga tattgatgtt 120
 taaaaggaaa aagaatgtgg gattttcatt gaaatgaaca acaaa 165

<210> 50022
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B12

<400> 50022

gaattcccg gtcgacccac tcgtcctcgc agtagtcccc tcacgtttctc ttactttctct 60
agcgccgtct cccaccagac tagatggccc cgtagaaggt caaggcccct ctttcgtagt 120
ctaattccggc caagtccggt ggtggcaagc taaagaagaa gaagtggagc aagggaaagc 180
taaaggagaa tgtaaacaac gcggtgctgt tcgaccagge tacctactac aagctgctct 240
cggaggtgcc caagtacaat catatgaccc cttctatcct cttctagcgt ctgatgatca 300
acggctccct tgctcggagg gccatcaagg tcttgatggc gcgtggcctc attctgatgg 360
tctcgggtcca ctcaagccat cagatctaca 390

<210> 50023

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B8

<400> 50023

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ttttattcct gaagcatggg ctggtgctgg gcggccatta catcaccacg cctgaacgtg 120
ttccaggcct acacgtgaa gcggataagg gaccccaact gcaaggcgac gccccagtcg 180
ccgctgtcca aggagttcgc cgacgagaa aagcccgta gactggtcaa gctgaaccgc 240
gcgagcgagt accctgacgg cctggaagac acgctcatcc tcaccatgaa aggcacgcgc 300
tgctgcatgc agaactctgg ctaggcagct tatcttctact cacctgcaga gtgcaccgca 360
ataatcagct ttcggatggg ggcgttttct cagtttttga tggaaatgcc gaactggcaa 420
cgtctgtttt ccctatgcat atggaatttc ctgcctcttt atattcactc tttgt 475

<210> 50024

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C12

<400> 50024

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tggccagcgg cacgtcaaag aagggtgca agaggaagac acacaaggtt ctttcctact 120

agctcgtcct tagttctttt gagtcctttg gttgttcgat gccttctact gattcatgtc 180
 tcgttcgggt atgtgtgtca tcaactcgtca tggcgtcggg gaagcgggtt cgagtgcacg 240
 ggaaggacaa gatcgtgcgg cgggtgcgccg ggaagcaaca cttgctcgcc aagaagaaca 300
 ccaagggcaa gaagagactc tccaagatgg tctatcggtg gaaatgaagg gacatgtcgt 360
 ttttctgtcc aacgagaata gcacttgtct tctgctaata ttgccgctgg acatacgaac 420
 tctgtgcttt tgtgtgcaag caatactcgc taatagtctg ttccgatttc taatga 476

<210> 50025
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C3

<400> 50025

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 cctgacactc ggaagacaag taagtactct tctagagcgg ggcagccgtg aaggaaaccc 120
 agctgccccg gattcagatt acagaccga tagcaagata ctatgggatg aagcgtgggc 180
 aggtcgtgaa gatcacaaga gccagtgaga ctgctggaga tacatcacct accgctacgt 240
 tgtctgagct ttgctacatt ctcatggctt aagcttccgc accaagcgaa aatgacctct 300
 actt 304

<210> 50026
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C7

<400> 50026

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 gctgagtatc agctgattga tatttctgag gatggatggg tgagccttct tacttcagat 120
 ggcaacacta aggatgatct tagactccca actgatgaga ctcttggtggc ccagattaag 180
 gaaggggttcg aaagcggtaa ggatcttggt gtgactgtcc agtctgcgat gggggaggag 240
 cagatctgca cgttgaagga tgttggcccc aagtaacttc cttggctttg gagacggaac 300

tcgggtctcgg attccccgggt cgaacgcgtc cgccaggcgt tcgtccacgc gtccgtccac 60
 ttgttttaac tgaagggttt tcatgcaccg gggacgggtt acccaagatc ttgatggtcg 120
 gcaacagata ccatgaccct ttgcttaaag cgatggaatt cctgggtgtcc agattattga 180
 aaccttgaca aggccttaag gatctagttg gaagcccaca tta 223

<210> 50030
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-046-Q1-K1-D11

<400> 50030

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 ttgttaggac ttatacaaga tgtgtgcatt ggggaaagtg gaccgcactt ggactcgaag 120
 catgcgtatg ttattgttag gcatgtgaag tttgcaaca agaaagggtg gaagaaagct 180
 agccaggcca tggaagatgc aggaaaagg accagcagtg ctgtcccata gtcaccggtt 240
 gatggcagca ataccgaaga catggcagtt ggacatggtc tcgggaaacc tgatgatcgt 300
 accatctcag atcgtgttaa ggaaacagcc acccgtctct tcagagactc cncgtcccaa 360
 aaagaggggc acgatagaga atttaaaagg gagttcaatt ggccaaaatc caaccaggg 420
 gctggtggaa acagaaataa tcctgccaga ggggacca 458

<210> 50031
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D3

<400> 50031

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 gtgcgttgaa agatctaagc tgtgaaatta agtacgcagc tgatcacttg gagcaagcag 120
 actcacttta ccattgtccc agaataataa ttagtcactt caactttctg cgtctgtgga 180
 gtaaggttgt acgagtgttg gggctgtgtc attatgggat ttgagctcac ttggtttctg 240
 tgtaaagtgc agctgctgcg gtttttttgg tcaactggatg actgctgctg ttggctggtc 300

aggtttgata tgcagaaaata tccattgcat tctgcgtttg aaaaaaaaaa aattttatt 358

<210> 50032
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D8

<400> 50032

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ctaacagcgt acgtttctgc gtgaaacat cagcagcagc ggatcgtgct acagtgacct 120
tagcattaaa gactgcgctt gaaggagtat gacagtctgc tacctcgatc atgactcaag 180
aataaggcta actgcaagcc tgacttgtaa aagcccaggc tcgatacgcc gtcacgcgtt 240
gccaacgggc aaggttagga acgaaaatgc ttgatacagg atcactggac tccaacaact 300
agtcgctcct tttggaaaga cggacacagc atcgggtgctc aatgagacca tcgagtaca 359

<210> 50033
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E1

<400> 50033

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acagggaagt ggaacaagtc cctgagttgc caaccatgtg accaagaagg cgatcctctt 120
ccaggcacgg agctgaagga gatctggaga gttgctcctg cccacaggg cgacaagtat 180
cagtacacac acttcgcaca caaaataaac agcttcgaca cggcacctaa gaagctgttg 240
gcatctgatt cacggctgag gcctgataga tatgccctcg agaagggtga catgtctaag 300
tccggggcag agaagagcag gctcgaggaa caacagagag ctgagaaacg aactcgagag 360
gccaaagggcg agcaatttac tcctagatgg ttcaacctga cagatgtggt cttccctaca 420

<210> 50034
<211> 421
<212> DNA
<213> Zea mays

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 gggcgtggcc gtcggcatct ggggatttca gctcttccg aacatcacg gcaaccgga 180
 agtcagggtg aacaaggcag ggagggcagc tgggtgtgctt gagaaccatg aggaggggag 240
 acgttacgcc atgcatggcc taagaagctt tgtgcacgac aagactcctg agatcatgcc 300
 tgcagttaac aagttcttca ctgaccctaa gtgaagcatg ttgattggca tactactact 360
 actactactt gctactgtgg attttacact ttgctggcaa ctcaatatgt tggggacatc 420
 catgacctct aaaagtactt tgagcgcttg gtgat 455

<210> 50037

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E5

<400> 50037

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 acgcgtccgc ccacgcgtcc gccacgcgt ccgccacgc gtccggacgg tcaagccctt 120
 cgtaaacggc ggggcctctg ggatgctcgc gacctgcgtc atccagccta tcgacatggt 180
 caagggtgagg atccagttgg gtgagggtc tgcgtgtcag gtcacaagga acatgcttgc 240
 aaatgagggt gtccgttctt tctacaaggg tttgtccgcc ggattgctga ggcaagcgac 300
 gtacacgact gctcgtgttg gaccttttag ggttctaact aacgaagcag ttgaaaagaa 360
 tgaaaggaag ccattggctc tatttcagaa aggctttatt ggtctgactg ctgggtgcaat 420
 tgggtgcttga gttggtagta ctgctgatct ggcaactcatt agaatgcaag 470

<210> 50038

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E6

<400> 50038

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 gcttgcggtgc aggctcctgg gcgtgctctc ggaggccatg gacctggaca cggaggctct 120

ggccagggcc tgcgtggaca tggaccagaa cgggtggtggt caacttgtac ctgaggtgcc 180
cagcatccgg acctcactct ggggctcaag cgccacactg accacggcac catcacgctg 240
ctgctgcatg acctcgctcg ctgactccag gccacgcgcg actgtggacg gacctggatc 300
accgtgcagc ccgtggaggg cgccttcacg gtcaacctca gcgaccacgg tcacttactg 360
agcaacg 367

<210> 50039
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E9

<400> 50039

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cgcctggagt ggacataccg tacggggctg aggaagacga gcccgacaag aagaagcccc 120
ggatgatgct catcgagcgg ggcaagacgc ggaggctcgt gaacacgcct gacgttctac 180
tcgggcttgg ctggttcggc ttcgaggtgg tcagggcgga tccaaggacc cactctgacc 240
tcgaggagtt tgcccgccta gtcgactcgt gtgacgcgat gatgggcgct caccggtgccg 300
gtttgaccaa catggtgttc ctgaggtcgg gcgcagcgt ggtgcacgct gtgccctacg 360
gtgtctagtt catggctgac 380

<210> 50040
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F12

<400> 50040

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ttgcatgctg agtgtctca ctgatgctgc cgaagaaaat gatgccgttc atgctaacca 180
ggcataggat ggcagccagc tatttgaact tactagctca aggtgcgac acgagaagat 240
aggcatgcct tcactatgac ttcattcata gagtgtcatt atacaatgag catgcatatc 300

atccattgca ttacttcagg cttgtgcaac tggcttagtg atactgcatg a 351

<210> 50041
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-F3
 <400> 50041

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 caatgctaac tttggactga aacggatctt agacttaact aaactgggtgc atgaatcatg 180
 atgtcatgag acctttgctt agctacactg accgctgtca tttctctagc tatacgcgta 240
 ctccaatttg gatacatgcg ttgctagagg attatgcgta tgtttgtcac taggtgtccc 300
 tctcattcat actttgcaac tttacgtcac tgggatccat ctatctacta gataattgag 360
 ctctctgata gactaaaggt gcgaatgac gtactagagc taatatatag ttgactcact 420
 gaaattagct agcttaacaa tatctagcta actatt 456

<210> 50042
 <211> 485
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-F7
 <400> 50042

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 ttactgcacc gtttcgcatt cttgaactcc aaacatacga acatggcgaa gcaagtgcc 180
 aagcacaact ggaagactca cttacacgcc agcaactagc gcgccaagga gttctagggc 240
 ctgctaaaagt acaacgaccc cgagggcttc aacctcgtcg acgtcctcga ctggggctcg 300
 ctcgccaca tcgtcgcta ctacatgctc gccacctgca gcaacggata cgacccaac 360
 ttcttctgag cggccggctg cgggcatgtt cttgagcctg cctgtattct actccgtgtg 420
 tgttgagcca tatatctgat gctcaaagat tggttaattt gaacaagtgg tgcaactgca 480

cgtgt

485

<210> 50043
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F8

<400> 50043

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tccttatgtt aacgagacca gtggaggtca cgggtgttcac cgataacgaa ggcatgacat 120
atcacacagc tcatttctgg acagccttt 149

<210> 50044
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G11

<400> 50044

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cgcatgtgaa tcgcactgtt agttaatgct tgggtgctgtc agtcttggtt ggagtctgac 120
tcgtaaagct cattatcacc ggaagtgttt gtcggaggag tgctggcact aactatttat 180
cttcagttgg ttgtcgtgtt gccaaaa 207

<210> 50045
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G7

<400> 50045

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cggctgggag accaccgaga ccagggcggg cattatcgca cttgctgagg atacactgac 120
gaaccttggg tgtgtacttg cgccagtgtc agctctgaca tgtactcctc attcactgac 180
caagtcattg tccaacttgg actgtggaag gagtagagct ctgacaagta tgagacgaac 240

gtgtatgtac tcccaatgca cattgatgag aatgacgctg ctcttcaatt gggcaagctt 300
 gatgccattc tgaccaacct caccaagtct catgacgact acatcagcgt gcctatcgag 360
 ggtacctaca agctctgccc actaccgaga ctaggcaca 399

<210> 50046
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G8

<400> 50046

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 tgggctggtg ctgcgcaacc cttacatcac cacccttaac gtcttacagg cctacactct 180
 aaaacggata agggacctca actttaatgt gacacttcag ccgcctttgt tcacggactt 240
 acccgactag atcgagcgca tctgactgct caagctgcac ccagcgatgc ttgtcacgat 300
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 ttcataggat gctttcttct 379

<210> 50047
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-H10

<400> 50047

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 aggcgccgta ccaggacggc gtctccaagg agctggcgca cgcctgaaga ccctgatcca 120
 tccatttctg tccaccacgc tatgtacgta tgtgtagcag atggtttaca tctacgtgtt 180
 agagcccgga gagctggaga agctagctag cgtgcttaca gaataacagc agccaagcaa 240
 agccaagggg gtgtatataa taggcatgcc ttgggttggt tcagctgcga ctgtatgtat 300
 agtttaaacc aagatgaaat ggtactgatg gtgatattcc gtgttttacg ataaaa 356

<210> 50048

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H3

 <400> 50048

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 ttattttactg tacagacaac aatcacccaa agggatgaat tctataacca tacgaatgca 120
 agcattcagc tacacactta cctcaaggca cctgtctcct acactcatca caatcccaac 180
 tcttacgcac caccattcca cagccaccac taacctgcta acttttccgc gacatctaac 240
 aacaatcatg catctgtccg gctcgaacac gaacacgaac ttgaaacctg acagcaccac 300
 ttaaccctac agaacagcta tcacctccgt catctacaa 339

<210> 50049
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H4

 <400> 50049

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 ggcgcgccat gctcgccatc ctcggttact tcatccaggg gctcgtcacc ggcgtcggcc 120
 cgttccagaa cctgctcgac cacctcgccg acccgtcaa caacaacgtg ctcaccagcc 180
 tcaagttcca ctagaacgtg gtgcatcagc atacctgctg ctgccgccgc cgccgccagt 240
 tgtttgctgt ggaaagctag atgcatgcgt gttgtaaagg aacctgaagc gttgcatcgg 300
 tcatgattca tgcattggcca gctgctgcc tgtaacaaca aactagtatt gatcttattg 360
 agaccggaaa ctgtattgca catggtaaaa 390

<210> 50050
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H6

 <400> 50050

ttccccgggtc gaccgacgca tgcgtccacg cgtacgcagg ggcctgatca gagtgggttc 60
 tgggttttgc ccttatgaga agcgtgtggc tgatcttctg aaggtgggca aggacaagcg 120
 tgccctgaag cttgctaaga gaaagcttgg aactcacaag agggcaaaga agaagagaga 180
 ggagatggca ggcgtttctca ggaagatgag gtccgctggg acgcacactt acaagaacaa 240
 atagagagca tttcaagttc atggagcctg ccagagatta tgttccagtg tctgatttta 300
 catacatgta gaacctataa tacatgtcaa agtcttatgt atccaaccag ctcattgggat 360
 ttt 363

<210> 50051
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-B2

<400> 50051

ccggtccgga ataccggcg ggaccacgc gtgcgggacc tactagcgac aaaccgctct 60
 tctaaacaaa aacctctcag ctaatatggc ggaatcttat acatcgatca caggcctctc 120
 ccatggcgtc ctgccaagaa cgctcaccct cagcagaacc agcacagccg tgaccagaag 180
 aacgccgccc gcatatggca acgccagtc cactccggc cgacgaaccg ctatcggcct 240
 cttgctcact gtcataacaa gctggaccat gtctagccc tcacgcgccg aaaccgtcta 300
 gaccatcaag attgaaacac tcgtcttcaa cgttcgcattg acc 343

<210> 50052
 <211> 305
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-C1

<400> 50052

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 cgtcgatgcy tggcctcgat gganaagctg gcgttgctct ggtgatatga tgagagcaga 120
 gcagctcccc tgtgtgaaga caataagagg gaggagccta ctcacagcc tacttccatc 180
 ttgcttatta ggctgctcaa actgagttgt cgtagctct tttttttatt tctccttct 240

<210> 50057
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-D4

 <400> 50057

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 taccttcccc tccacgagtt ccttccagaa gggaacatcg aggacattgt aagtgaatta 120
 tgtgctgaga cgggagccaa ccaggaggat gccctcgcgc gaattgaaaa gctttcagaa 180
 gtaaaccgga tgcttggtt ccgtgggtgc aggcttggtat tatcgtaccc tgaattgaca 240
 gagatgcaag cccggggccat ttttgaagct gctatagcaa tgaccaacca ggggtgttcaa 300
 gtgttccag agataatggt tctcttgggt ggaacaccac aggaactggg gcatcaagtg 360
 actcttatcc gccaaagtgc tgagaaagtg ttcgccaatg tgggcaagac tatcgggtac 420
 aaagttggaa caatgattg 439

<210> 50058
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-D5

 <400> 50058

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 ctactcaggc gccacacatg gcatcccatc tgtcggccgc cgtaccccggt ttccacggcc 120
 tccggggcta cgccgcgcac aggtccgcgc tggcagcgct gccgtccgtg aggggtgggca 180
 ggaagaggtc gtcgtcgcag ggcattccgt gcgactacat cgggtccgcc accaacctga 240
 tcatggtgac gacgacgacg ctgatgctgt tcgcggggcg gttcgggctg gcgccgtccg 300
 cgaaccgcaa ggcgactgcg gggctgaagc tggaagcgcg cgactccggc ctgcagacgg 360
 gtgacccgc cgggttcacc ctcgccgaca cgctggcctg cggcgccgtc tgccacatcc 420
 ctcgcgtcgc catcgtgctc gggctc 446

<210> 50059
<211> 86
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-E2

<400> 50059

cggaattccc ggggtgggccc aagccttccg gcctaccaaa aaagccaaaa gcccgtagg 60

ttacttcgct gcctgaggag ccccg 86

<210> 50060
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-E4

<400> 50060

atcggtcctg aattcccggg tcgagccacg cgttcggcca agccttccaa aaaaggagga 60

gatggagcac aggcccaagc agcacctcgg cgagggcggc gccatcgccg ccggcgcctt 120

cgactctac gagaagcacg aggcgaataa tgaccccgag cacgcgcaca ggcacaagat 180

cacggaggag gtcgctgccg cggcgggccgt cggcgccggc ggctacgtat tccacgagca 240

ccacgagaag aagaaggacc acattgacgc cgatgaggcc agcggcgaga agaagcacca 300

ccacctcttc ggctgaccgt agtaccggcc ggcgcgcgac cgagctagct agcttcggcg 360

cacacaacca cacacctgtt taattctgta ctgcatgcgt gtgtaatttg atggttcaca 420

ataatgag 428

<210> 50061
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-047-Q1-K1-E5

<400> 50061

accacgcgt ncgcccacgc gtccgcccac gcgtccgccc acgcgtccgc ggacgcgtgg 60

gttcaaccgc tggaccttcg atgatgtcca ggtgaacgac atctcgctga acgactacct 120

cccagaacac cacgtacttg g

261

<210> 50064

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F5

<400> 50064

tgacaagccg gcggcggtggc ggtcgggtggt ggagcggtag atcgagcatc tgatggcgct 60

ggcgtgcagg ctcttggggc tgctctcgga ggccatgggc ctggacacgg aggcgctggc 120

cagggcctgc gtggacatgg accagaaggt ggtggtcaac ttctacccga ggtgcccga 180

gccggacctc acgctggggc tcaagcgcca caccgaccg ggcacatca cgctgctgct 240

gcaggacctc gtcggcgggc tccaggccac gcgcgacggc ggccggacct ggatcaccgt 300

gcagcccgtg gagggcgccct tcgtcgtc 328

<210> 50065

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F6

<400> 50065

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ccactttttc tacattttcca gttcgtatg tggaaggtag acgagcaaca gttacatgaa 120

tgggaatcga aagtatgcag aatgcagggt tcatcaaag ggtaccaagg aaaaaaatg 180

cctcccaagc ctgcattggt tgccttctgt ttgaggctc gtggactcga tgtaccatac 240

aagggaccaa agcagcggtc tcataagaag cttatgtcta caggctgcca tagcttttca 300

agacagcatg atggctttta ccggcaagta tcaagtagga gatacaatga atgcactgtg 360

gatgggcgga tatgcgaatt atatgacatt ggttctcttt attccctaac aggggt 415

<210> 50066

<211> 174

<212> DNA

<213> Zea mays

[illegible]

cggtccggaa aaccggggg gaccacgcg tcgggggtcc cttctctcaa aaatcatttt 60
ataacaagcc aaactaacia gcctgagaag ggtcttttca ataagggggc gccctacacc 120
cataattcta ccgaagaaag aacgctccta ggcatgaca gggattacta ctgc 174

<223> Clone ID: LIB3078-047-Q1-K1-G2

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ctgtccttct aaaagtggcc ttatactgtc tgcaggagcc taacttaacc aaactctata	120
ttcaaaccta actctttaaa cagtgaaggc tgcagtccaa aaccctggca aaatatgggt	180
tggccccggtt ttatgcacga tttgttggga cattgagctc accaatacga ataagtggac	240
gtgcaaaaca ttattctagc actggtgatg tattatagac a	281

<223> Clone ID: LIB3078-048-Q1-K1-A11

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agagatcacc	gcgctggggc	ctgatggggc	aagtccgaag	gtgtcaccgc	tctgggtgggc	120
tgagcttgag	attatgactt	ctgagagctg	agttcgactc	gtgccagaag	atattgtttc	180
tcctagtgtg	actgagaatt	ctttgagcta	ctactggctg	ctgctaattc	tgttttgtgga	240
agtgggtgatt	aggtagactt	tgttatgtgt	gcagaattgc	atatagggat	tggtattgta	300
cttgtacatg	tcaagaaggt	ttaacacaca	acatactgat	atgcaggcat	tccagccagg	360
tgagcaatag	aaagcatgtg	tggcttgttt	ttgctgcaaa	aa		402

<210> 50069
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-A12

<400> 50069

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 atgcctcttc aagtgaatca aggggcacag aacctcaac aagtatgtca acagagaaca 180
 cacctgtgtc catcaacgtc ccaaagttgg cagagggcat tgaatttggg aggcaaccaa 240
 tggtcacatc ctccactttg gtagagctaa caactagact agatttcttc aaggagcgaa 300
 ggtcgcaact gatggaacaa cttcatagcc ttgatttggg acgtggatct gctccgcaag 360
 gttttccatt caagccaccc tctccttggg accaccaag gtaggaggat gaccgttcga 420
 tttcatgatt gtaaattctt caatagtggg tccttttc 458

<210> 50070
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-048-Q1-K1-A3

<400> 50070

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 aacattattg tcaaagtga aggagatgcc acagtggatg ctgtctttgc taagatcgac 120
 gagctgctgg gttctatcct ggagaagaaa aatgaaatgg tttccagcac atgagcaagg 180
 taaaaatgat tgggtgcagt gcagatccga caagttcatg taatgcaagt cacctctcat 240
 gataggaact tctccagggg aatatatctg aagcacagga cgacacgtac aagtaatgta 300
 agccagtctc acgtaatgga aatttctcca tgtggatgtg gtcaaagcat angaattttt 360
 ttctccaat tattaactgt acg 383

<210> 50071

<211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-A4

 <400> 50071

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 agtagttttg ataaaagcag ttgccaaaga gtctgcagct cgcaggatca cctgctatat 120
 gtgcgtgttc ctgctatctt tcggaaagat ttgggttgta cataatctgt ccttaccctt 180
 cttttttaaa aaaaaattat gttcctacta ttcttaaaaa aaaaaagct aaaaactata 240
 aataaaaaaca aa 252

<210> 50072
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-B11

 <400> 50072

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 ggtggttggg cagatctcgg tgtctattcg tggacgatat gctaaggagc taatgagaaa 120
 ttcaatgagc gctatcaaag atgagccaga acggaccatt gatccaacca gagttttgga 180
 aaaggcttat attagtacta aagcaagggg gtcactctacc gcgtgtatca tcactcttaa 240
 agatcagggt atccatgctg taaatctcgg ggatagtggg ttcgtagtag tccgagatgg 300
 ccgcactgtt ctcaggtcac cctcacagca gcatgatttc aattttactt atcagcttga 360
 gagtggaggt ggcagtgatc ttcttagttc cgcacaagta tttcactttg cgggttcctt 420
 ggatgatgtt atcgttgctg gcacggattg actatttgac aattt 465

<210> 50073
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-B12

 <400> 50073

gattccccggc gcgacccact cgtcctccca ctcgctcgct tttctatagc atgtatcagt 60
ccaggactcg ttttttttct gtcgagtatc cttgcaagtt ccgactccct cactcatctc 120
cgttcgctcg tctcaccgac ccctagctcc tctccacgcc ggacacgtcc agattctatg 180
cctactacta tcgctaacgc tcttttatct ccgaggctat gcaccatctt cttcattcca 240
ttctccca 248

<210> 50074
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-B4

<400> 50074

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agaagagtaa cccctcgtct cgcgggggccc gggggagccg cggcgatcc gccctggcg 120
gcgggaccgg cggggtcggg ccgaccaggc gccctttta aagggctggg aacaggcagg 180
cgccctacca gccgccgaag gccccgacg ctgcgtggca gcacgacatg taccctgcgg 240
tcgccgcagg aggcggcggc ggcggcgga gggctctggc tctcgagac ggcgccaagc 300
tctacatctn caacctggac tttggggttt cgaacgagga tattaaggag cttttctctg 360
agctagggtga tttgaagcgt ttttcgatta attatgatcg aagtgggagg tctaaggga 420
cagctg 426

<210> 50075
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C12

<400> 50075

gattccccggg tcgacccact cgtccgccc ctcgctactac cactcgctcg ctctgccttc 60
gccgctccct attccttcag acgctctttc cactcggtac aattcgtcac cagccccgca 120
ggcgccatca ccgacagggc gctagtagac acggactcca ctaataaggc a 171

<210> 50076
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-C7

 <400> 50076

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 tttctatccc gacacccgct acccgggtggc tgtgcggttc aacaaggatga actacgccgg 120
 cgtgtccacc aacaactacg ccttggacga ggtcttagag gtgaaatgag tggggccggc 180
 cggctcaagg gctccaagct agctaccgtg tgattgatta gtagtatttg tgaaatgagg 240
 ctgcgaagct gcatgctgtg ctggctagcg tcaccacttc gaccctatgt g 291

<210> 50077
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-C9

 <400> 50077

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 cttggcttga ctggaaacaa ggtcgaaagg ctgtgtgata tttgccacat cacattgaac 120
 aagaatgctg tcttcggtga cagcagtga ttgtctccgg gtggtgtccg cattggcgcg 180
 ccagcaatga cctcgagggg tctactggag aaggatttcg agcagattgg ggagttcctc 240
 caccaggcag tgaccatctg cctgaacatc cagaaggagt acggcaagct cctcaaggac 300
 ttcaacaagg gcctggtgaa caacaaggac atcgagaacc tcaagggtcca tgtggagaag 360
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 atatgcctct ttcattgcgcg gcaaagggtc tctgtaccga tgt 463

<210> 50078
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-D12

 <400> 50078

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 actatcagga ggcttactag ctccgggttac atcttgagca gactattacg gaagctcgct 180
 ccgaccgttc agcaagaaac tacacgata 209

<210> 50079
 <211> 149
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D6

<400> 50079

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 tggaacgtac tgtataaacc gtggtatccg agcttcatgt ttgcttgatg cttatgcaaa 120
 ttgaagggtg aataagtgtc agtttcacc 149

<210> 50080
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D9

<400> 50080

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 gccaaactata aggatttact gcatgttgtc cggttactgg atgatgcttg caaggaggcc 180
 tgattcttct atgtgaaagg ccatggtatt gatgagtcac tgatgagga agtcaggaat 240
 gtaacccgag aattctttca ccttacttat gaggaaaaat tgacaattaa gatgacacct 300
 caaagcggat atagagggtg tcaatggata ggggaaaata ttaccaaggg taagcctgat 360
 atgcatgaat caatcgattg ttatactcct attacacctg gcacatatgg agatcttgct 420
 aaaccaat 428

<210> 50081
 <211> 300

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-048-Q1-K1-E11
 <400> 50081
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 tcctcctacc agatctgtga tgggaagtct ttgacatttg tatttagttc tcttttaccg 180
 aggagaaaaat ctatgtacct acatatcttg ttgtctgaag cccaatgact agatacttat 240
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<210> 50082
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-048-Q1-K1-E12
 <400> 50082
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 gcatccagaa atttgaggcg gtgaacttgc tgttggctgt gatcctgtta ttcacttctt 180
 acaagctatt tgctgaagaa gaacaagaat ctgatctatc cgataacttc attgtgaaaa 240
 catgccaaaa gttcattcca gtcactgaat attatgacga ctatcggttt ttcacatatc 300
 aagacggttt atggaaagct acaccattgc tcttgacttt ggcaagtatt gagctaagtg 360
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<210> 50083
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-048-Q1-K1-E3
 <400> 50083
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gacttccccg tcgtcgtcgc caagcctccg ccgccggcat gaccgctgg ccgctctcgc 360
atccgccggc cactgtacgc ctcccccttct caggtcgcgc agcagatcca cgtgtgcctg 420

<210> 50086
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F3

<400> 50086

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tccagagccg ccgcctcatg gatctccage tgcgcggtct caaggctcgc gcagctgcga 120
cagcagcagc ggcacgcca ctgccaacac cagttgccaa tgcctttgcg tccaaccatc 180
ctttgagcac catggcagtc gagtcgccac tagagtccgg agagcagctc aagctgagca 240
gtgggtttgc tctggagggg aagctcaacg gtggcgacaa ggaagaatct gcttgcgagg 300
cgagccctga cgccgctgat agcgacaaa ggtggattaa acaaccatt tcatcattct 360
tcttccttgt taagtatgat tcccacgctt ggccttcatt aatcatgatc ctatatgtat 420
atggatatta atcaggtcta ggaagttcaa ca 452

<210> 50087
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-G12

<400> 50087

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ctttccgac ccggagacat tttcgcgcaa ccggcatctg gacgtgatcc actcccgggt 180
gtcgattctg cgctctctgg gctgcgtgtt ccccgagatc ctctccaaga acagcgtcaa 240
gttctgctag acaatgtggt tcaaggcctt ctgcgaaatc ttctcttaag gctggctata 300
ctacctgctg aacaccaacc tggttcactc acacatcatc cttaccatct attcttt 357

<210> 50088
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-048-Q1-K1-G3

<400> 50088

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 gagaagtcca ttcagcagac aaaggcggag acacaatttg atgtgactgt gcaccatcag 120
 atatggcgtc cgaggatata ccatatgttc acgttccagt tggtatcgac ttttataatg 180
 tctcaccgtc aactgagat aagtcgaaaa aggagatata ccgcgtggat ggagaaaaag 240
 agaagaaatn ttgggagaca ttggaagtgc tgccagttag gctacgtcta agctcagaac 300
 aaatggntta tgttttttcc nctaattcgg tcgtatttgg atgctngagt cctgcattgc 360
 atgatgaaga acattctcaa tctctctttt ttggaataa tttaaatcag gatctatang 420
 gtaaaggaag tggtttgga cagatttctg aatca 455

<210> 50089
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H10

<400> 50089

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 caagacgccg ctccggcgcg tcggcctatg atttgcatgc tgccggcgac cgagtcagtt 120
 ctcgattgcg cgccgggtgg gtgagctcct aggacgtac ggctgcagcg gatcagacgc 180
 cttgcctcgc agattggagg cttaaagaaga gcgtagcagc aatctactgt ctgtgttggt 240
 ggtttcttct gggtaacgtg cgtgaaccag atgggggtgtt cctctctgtt tttttttttc 300
 ttttctgtgt atgtatgtac catgtaatgt atagtatgga tcgatttcat tgcatt 356

<210> 50090
 <211> 386
 <212> DNA
 <213> Zea mays

<211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-A11

 <400> 50095

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 cgtaatgttg gggaaactga tgagggattg agcagcttcg cattgggttg cgtaaacttg 120
 cgaaagcttg aactcaggag ttgctgcttc agcgagcgag cactggccct tgcaatacta 180
 catatgcctt ccctgaggta cgtatgggtt cagggctaca aagcgtctca aaccggccga 240
 gacctcatgc tcatggcaag gcccttcttg aacatagagt ttacacctnc caatcctaag 300
 aacggagggtt ggctgatgga agatggggag ccttgtgtag atagtcacgc tcagatactt 360
 gcataccact ccctcgcccg taagaaggct gactgcccac 400

<210> 50096
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-B12

 <400> 50096

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 atagtcgaac tggctactgc aaccagagac caagaggaaa caaaagccac aaaaagagat 120
 tcaaaacaaa ataaagttgg tatcacagag atggaggaaa tttgtgtggg actgcaatga 180
 atcaaggaac acgcaagcca taagacgatg tgtttatgga tgaagatgat gatgccatgc 240
 cttcagataa tgttgcaaaa gatgacacta atgggttggc agagatggaa gaggatgctc 300
 tgacagaaat a 311

<210> 50097
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-B9

 <400> 50097

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 ggagacgcag aggtcccgcg gcttcggctt cgtcaccttc tccacggagg aggcgatgcg 300
 gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca ccgtaacga 360
 ggcccagtcc cgcggcggcc gtggaggcgg cggcggtggg tacggtggtg gccgtggagg 420
 cggc 424

<210> 50100
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-F10

<400> 50100

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 acacagactc ttaagaagaa ctcagggaag cctggcccgt gttcgacaag gaccagaacc 120
 ggttcattctc tgctgctgaa cttcgacatg tcatgaccaa cctaaggagg aaactgacgg 180
 acgaagaagt ggatgagatg atccgtgaaa ccgacgtgga cggatgatggc cagatcaact 240
 acgaggagtt cgtgaagggtg atgatggcca agtgagatga tgtgcctgtt ttgaagctag 300
 ttcctctctt gatggtagta gctagtctag tggtggagac tgactgcatt tggccgcct 360
 tgttcctctc gctgcatcaa tggacatatc cgtttgtttt ctccaaggg attttaccat 420
 gtcngtaatt tcgttcaaa 439

<210> 50101
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-F11

<400> 50101

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 ggatagactg cagatcgagg gtctggcagc ttgccgtggc agttgggtga ttacgactaa 120
 tagagatggg ccttctcgac aagctgtggg acgacaccgt cgcattgccg cgcccggaca 180

ccgggctcgg tcgncttcgc aagcagcctg tgcgttcgcg cgccgtcaag atcagtgatc 240
 cggccgggga cgctgcggcg ttcgtgccgc cctcgccggc ttcgggtagc gaggagacgc 300
 cgggtgaaggt gactcgcac atcatgatca agcgccccgc 340

<210> 50102
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F5

<400> 50102

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 cgcggttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 120
 atgaacggca aggagctgga cggccgcaac atcacgtca acgaggcca gtcccgcggc 180
 ggccgtggag gcggcgccgg tgggtacggg ggtggccgtg gaggcgccgg ctacggcggc 240
 ggcgggcgcc gtgatggcg cgggcgctac ggcggtggcg gcggctacgg tggcgccggc 300
 ggctactgtg gtggtggcg cggtacggc ggtggcaacc gtggcgccgg ctacggcaac 360
 tccgacggga actggaggaa ctgagcggcg gggcccgcg ggtcaagtta tcctgttcgc 420

<210> 50103
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G10

<400> 50103

aattcccggg tcgacccacg cgttcgagcg agtcagccac atcactagct agctgtgcag 60
 aggcaatggc gtccaagggt gagcgggtgg tggaggtcaa gtccccggct gacaagctgt 120
 gggcgccgct gcgcgactcc acggagctgt tccccagat cttccccgag cagtacaaga 180
 gcatcgagac cgtcgagggc gacggcaagt cggccggcac cgtccgcctc ctcaagtaca 240
 ccgaggcggt gccgatgctg acgttcgcca aggagaagct tgagacggcg gacgacgaga 300
 acaaggtggt gtcgtacagc gtggtggacg gcgagctggc ggacttctac aagaacttca 360
 agatcacgct gaaggtgact ccggccaagg cggacggcga gggcgccgcc gtcgtcagct 420

gggccatgga gttcgac

437

<210> 50104
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G11

<400> 50104

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ccgtggctgc aaaagcctac tagctcgggc tgccgaccg tctgcctgcc ccaacgaccc 120
tgtgaaatat gccgaaaact ggatgtacac ttccgtctac cgaaactacc ggtaatgctg 180
gcgggaatca attttgccag tattaataaaa tctatcaacg cgggatggta ctctgttggt 240
tatagtcctt gctgctaacc acccttggtg ctggtgctgc tggagaggca ttgtacctgt 300
ccatgcatat atgatataata tatgttgtaa cgttgtgaaa gcaaacaatc ttgggtacca 360
atgtttggt 369

<210> 50105
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G12

<400> 50105

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gcaagaatca gcagggccat tggtagatt tatcagcagg aacagaatta atagaaggct 120
acaaattacc tgaaaagggc agctgacctt ttgacagtg agggacagtc gtctcaatca 180
aacaccatca aacagaaagt tgcagaaatt gctgctcagt tggaacagta cccaaaagca 240
actgagatat ttgaagcgat cgctcgtcag tcaatcaaca acaatcttct taagtatagt 300
gtcagaggaa ttcttcttaa tgctggcatc tgtcaactat gtaaagggtga tctattgcc 360
atcaciaaatt cattggagcg ataccaggaa attgaccgca ctttctctgg gacacgtgaa 420
tacaagcttt tagctgatct tgctgcatct atggatgaaa gggatg 466

<210> 50106

<211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-G7

 <400> 50106

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 gaacttcctc ctcagcatcg tgtccggtgg ggtcgtgctc gttggtattg tcggcgccgt 120
 cgtcgccgtc tccaacttcg acccgcgtcaa gagggcctga tcggaatcca tcgtatcgat 180
 cgtctcgctt gtgtcctgtc ctgtgcctgt gctgtctgta tcgactgggtg gtgctatatc 240
 ccctgtgtgt taattgattt tggagaatgt tcagacgtat atctatgtct aagaaatgga 300
 gttcgagtta aactttgctg agacttctct tgtctatata atattattag taggaatcaa 360
 aa 362

<210> 50107
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-A1

 <400> 50107

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 cagcctcact aggggttagc ggcggcggcg agatggtgca gcgcctcacg taccggaagc 120
 gtcacagcta cgctacgaag tccaaccaga cccgagtcgt caagacccca ggcggaagc 180
 ttgtgtacca gtacaccaag aagagggcga gcgggcccga gtgccccgtc accggaaga 240
 aaatccaggg gatccctcac ttgaggcctg ctgagtacaa aaggtccagg ttgcctagga 300
 gccgcaggac tgtgaaccgt ccttatggtg gactactctc tggaattgct gttagggaga 360
 gaatcattcg tgccttcttg gtcgaggagc agaagattgt caagaagggt cctgaaa 417

<210> 50108
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-A6

50108 50109 50110

<400> 50108

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attgaaacaa aatctgctgt ggatgatcag caatggctca cgtactgggt gctgtactca 120
tttatcactc tattcgagct cacctttgct ccggtactcg aatggcttcc tttctgggtct 180
tatgcaaagc tgttcttcaa ttgctgggta gtattgccac agttcaatgg agctgcacat 240
gtatatgagc attttgtgag gccaatgatt gtaaatacagc aagttgtaaa catctgggtat 300
attccaaaga aggatgaatc aagtagacct gatgatgtaa tttcagctgc acagagggtac 360
attgagcaaa atggatcaaa agcgtttgag aatctngtta acaagtttaa gagttcg 417

<210> 50109

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A7

<400> 50109

cggttcggaa ttcccgggtg gacccacgcg tccgcgcagc cgcgcccttc tgcttggtta 60
tgccaccgt cgtgccgagg atttgtggat cgctctgtgt tcggcctcga cagaaactct 120
ggacgctcgg acctcgccgt ggacgctgat cgctctgttt tttctctggt gcgcgccct 180
gtgcttggtt ccttgctagc agccgagcag ctcttcgcgc ccgcagtgtt acctcgtgtg 240
cgcgccctgc cgaagccctt tacgactgtc ggcaactccc catcctctag ttgtgctcgc 300
tgctggccct gtggtgagct ccttgcttca tctcgccat ggacgccatc tagcacgcgc 360
gcgcgggatg tatttctctc ttcgcgcagt gccttggtga ctgtcgagta gcacaccagg 420
cctgcgcagc ctgctcgcgt ctgtatagcc ccagttgcaa tgca 464

<210> 50110

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B3

<400> 50110

ggacctcaaa gcgaagtggg acgccgttga ggacaagccc accgtcctct tgtacggcgg 60

accgaacgtt cgacaccaac cgcgcggcgc tggttgggct gtaccaggag acctccatgc 240
 tcaccttcga gggccagaag ttccagggcc cctccgccat tgccggcaag ctcgatctc 300
 tccctttcca ggctggegag catcagatcg tcaccgtaga ctgccagcca tcgggtcccc 360
 agggaggcat gctcgtcttc gtctccggtt ccatacgcac cggccccgag gagcacccca 420
 tcaagtt 427

<210> 50113
 <211> 343
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-C10

<400> 50113
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 gaagagtctt agcaattaca gttctcaaaa ttttaaattg caatttttca gaaacctcgg 120
 cagccaactt tttgttttca tgtaacaaaa ttaggtccct aacaaaacga aggagctagc 180
 atcacatgat cactcttctt cttcgtcgtc accgcctcca ccagaagcct tcttttggtt 240
 ctttctcttc acccttccag gttctccacc accaagtggg ctggtaagag agaagtcgat 300
 gtgcttctct gagtcaactc tcaccatgaa tganggaatg ttg 343

<210> 50114
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C9

<400> 50114
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 taaaaactct aatacacagc acaaccgcaa cacaacatca ttatatatcc tcaactaccac 180
 cttatcacia acatctataa tatacacatc ccagatttta tccatcatcc atacattaac 240
 accttctact agttacctta cattca 266

<210> 50115
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-051-Q1-K1-G1

<400> 50115

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aggatgttgt caagttcaag gtgcgctgct ccaagtactt gtacacgcgc tgcgtcttcg 120
atgctgagaa ggcaaacaag ttgaagcaat ctcttcccc aggtttgacc gtcgaggagg 180
tctgattgga tacatggcaa cgccgggttg aactacccaa gcttctttat cagtagcaga 240
gcatgctact catgtacttt tggaacctaa gctattagac ctgtcagtgt tggatgtgtg 300
gatcttgcac ttttgtggag aaataccaat ttacctcgtt caaggatgca aaanacacta 360
aaagagaaaa aaaanac 377

<210> 50116
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G10

<400> 50116

tatagatcct caaatgaagt aattacacag gtattaggtc gtggcaaccg attgtcaggc 60
aatcaggctg tatatgttcg atgcggtatc cggttgcaga ccgtaagaat tatattttct 120
atttgccttt tgatttggtt ttcctct 147

<210> 50117
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G3

<400> 50117

ggaattcccg gctcgaccgc acgcgtccga cgactcggtc gacatgatca tggactgctg 60
cactcgatct gaggcagcac gcgctcgggc ctgtcttgac gtatcagagg gcggacttct 120

aaagcatctt ccacactctg tatgcactcc cggataccat gcgactcctg gaccctactc 180
tccaccagtt ccttccacaa gggaacatcg actacattgt aactgaatga tctgctgaga 240
ccgtagccaa ccatgaggat accctcgcgc gaatcgacaa actttcaaaa gtaaacccaa 300
cgcttggcat ccgagactgc aggctcggta tatcgtgccc tgcacgaca aagacgcaa 360
ctccctccat ctttgaagct gctatcgcaa tgaccaacca aagtg 405

<210> 50118
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G4

<400> 50118

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gcacctgta atagtaaaaa tttccccatt gttgtgatgt ccattgctga tgttttgcta 120
catattgctt atgcgtcaat tccttgctgc tgctgagggc tgcaaacttt caaaactagg 180
ctgcaagggtg gtgtctatat tgttaagctg aggaggctga aatgatttca atcgttgatt 240
atgcatttca gcgaggaaca caacgtcaga aaaggcaatt gttagttgaa ctgtactccc 300
ctgaacttca gctattcaag gatctgactg tgcaaagttc ctctgatac aatttccaag 360
cttgggttgc agatatcatc tgtcctgctt catatgacta ttgtgattga taaaatcttg 420
gagaa 425

<210> 50119
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G8

<400> 50119

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aagaactagg agttgcagga aagcggagta tgaccaaga agagacctca ctacaactga 120
ctggcccagt ggccctgctg cgcagcaatt aggggtcagc atacgaagcg aaacaacaga 180
tgatatgcat ggatatgcac aaaactgtaa taagagattg ttatttcaag aacatacgac 240

<210> 50120
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-G9

 <400> 50120

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 tctaccatcc tctacgggac ccacgggctc ttctaccacc acttggaaca gtccttatgc 120
 ctactactct accacctctc tctcatcacc atcatcatca agcgcaagga cttctactac 180
 aactgatca ccagcaacaa gatactctc ataacatcac actactacat gcatcatatc 240
 cgtc 244

<210> 50121
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-H12

 <400> 50121

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 ttcgactgga gggaccacgg ggccgtctgc cccgtcaaga accaggggtc gtgcgggtcg 120
 tgctggctgt tcagcgcgtc tggagcgtg gaggggtgcgc actacctcgc aactggcaag 180
 ctggagggtgc tttcggagca gcagttcgtc gactgtgacc acgagtgtga ttcacggag 240
 cctgattcat gtgattcggg ttgcaatggt gggctaata cgacggcatt cagttatctc 300
 cagaaggccg gtggccttga gagtgagaag gattaccctt aactgggag tgatggcaaa 360
 tgcaagtttg acaagtccaa gattgttgct tcagttcaga acttcagtgt tgtgtctgtg 420
 gacgaggtc anatttctgc taacctcatc aaacatgg 458

<210> 50122
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-H8

<400> 50122

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gcgcaggagc cgtgcttctg ccagtacgcg cgcaaccgg cgtacagcag ctacatcaac 180

agccccaacg cccgcgcac gctcacctgc tgcggcatcg ccgtcccgag ctgctagggc 240

gctagctcgt gcctcgtggt gtggatgaat aaaaagatgc atgtcgatct ctgcttactg 300

ttatcgtatc tgtagtacct cgtgtgatat gaacaatatg tattatttaa aa 352

<210> 50123

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A12

<400> 50123

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aaagtgacaa gtggacaaaa atggacaatg cacctcactc aatctcaatt tgctgatgtg 120

catcattttg atctgcctca cttgattctt cagagctggt atcctcagct attccagaag 180

cctccactgt ccgacttata cattccttga gaggatcctc attcagggtca agcctcaaga 240

ggccagcaaa cacaccaccc atgaatgcta ctggctcctt gatggcttct cggaggatgc 300

gctcatcccc gagagggttg aagaaagctc gcacgacccc tg 342

<210> 50124

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A3

<400> 50124

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cgctcgcgcc gctgtccgtg tgcgcgagct tactcgccg gccgcggcgc gtctgccatt 120

ccaagaacgc tttggacgaa gttgtggtgg cggactagaa gaactgggac gggttggtga 180

tggcgtgcga gacaccggtg ctggtggaat tttgggcgc attgtgcggt ccgtgccgga 240

tgatcgctcc tgtgatcgac aagctggccg ttgac

275

<210> 50125
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A5

<400> 50125

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gccatgttct ccatgttcgg gttcttcgtc caggccatcg tcaccggcaa gggcccgtc 120
gagaacctcg ccgaccacct cgccgacccc gtcaacaaca acgcatgggc ctatgccacc 180
aactttgtgc ccggcaagtg aggggggtgga ggcgccaccg tccaccggcc accgctgcgg 240
atatctaggt gttcggatgc acgtgagcgc gactgggttc cagtttgtac catgatgtaa 300
attacttacc gtaccagggt tcaatcggca aggaagaatt gttgtgttca aaaa 354

<210> 50126
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C3

<400> 50126

gaaataacta catgcatctt ctcatcttct gtattgagta catagaacac ttgtgcagca 60
cgttctgcga gaacacgggt catgtttata ttctactttc tttaagtata ccagtgtgag 120
taccagtgtg gtccgtagtt attcattatc acccccacgg gatgttgtac ccattgacac 180
ttaaataaaag ggtattttca tgcttgggcc aaaaaaaaaa attgcaaaag aacaacaaaa 240
t 241

<210> 50127
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C5

<400> 50127

tcaaaa

366

<210> 50130
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F3

<400> 50130

ttcccgggtc gcgccacgcg tccgggctaa ggaaaagggg gtctccctta tgttgccaac 60
cgatgttgtc atcgctgata aggttgctcc tgatgctaac agccagattg ttccagcatc 120
tgcaattcct gatggttgga tggggctgga tattggccca gattccattg ctgcattcaa 180
cgcagccctg gaaacaaccc atactgtcat ctggaacggg cccatgggtg tttttgaata 240
tgacaagttc gctataggaa ctgaagctgt ggcaaagaag ttggcagaac ttagccgcat 300
gggtgtgaca actatcatcg gaggtggaga ctctagtccc ggctttgaga atgtctgagt 360
tgctgacgtt atgagccaca tttccaccgg atgtggttcc agcttggaag tgttggaagg 420
taaggagctt tcaggagtta ctgcattgga t 451

<210> 50131
<211> 168
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-052-Q1-K1-F4

<400> 50131

cggacgcgtg ggtcaacctg gtggtcgttc gtgacgcgg aggtcgtcct cgtcggcggg 60
gccgagtact accggatcat caacggactg gacctcgagg acaagctgca ccccggtggc 120
cccttcgacc ccctgggctt ggccagcgac cccgaccagg ccgncatc 168

<210> 50132
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G1

<400> 50132

tccgggtcgc cccacgcgtc cggttatgcc tgcctacact tatccgacgt tcctatcact 60
agctatataa gaccaaactc gtggggacca acgatgagct gatgatccat gccaaagctcc 120
caattgatat gcagccccgc aaggtgtacg actaccggga gctgttacc tagatatctg 180
tcatgctctt ctacagcatg aacaccatcg atgtcgacga ggtcacggtc gatatcgta 240
agtttcagaa gctcacagac gaattgacaa tgctgaacct aatgggacag atacctgcga 300
ctgttgacga cagattcaaa ctattttaaa gcaatgcgat tttcaggtat cttgcata 358

<210> 50133
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H12

<400> 50133

gctgaagag gaccatctta ctgcaccagt agccaatccc gaaccttggc cccaatcagg 60
accataaccg aaggtttaag cctaacccca accaaaggca gaacctaaag cagagccaaa 120
gctgagccga aaccgaaacc agatccaaag ccagagccac aaccaaagcc agagcctaag 180
ccagaaccaa aaccagagcc caagccagag cctaagcccg aaccaaacca gagccaaagc 240
ctgagcctaa acccgaacca tgaccagaac cagaaccaa gccagagcct aaacctgaac 300
caaaaccgaa accagaaccg gagccacaac caaagccaga gcctaagcct gatccaaaac 360
cagagcctaa acccgaacca aaaccagagc cccaaccaa accagaacct aagcccgaac 420
caaaaccaca gccagaacct aagcccgaac c 451

<210> 50134
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H9

<400> 50134

cgcgctcgag gtgctcgta actgcggctg cgccgtccc ccaggctaca aatgcacttg 60
aacgattcca tccattcca tttccatttc caccagcac acgtgcacag caaacgtct 120
ccttttgccc tccgatgca aagtttgaaa aggctcgtcg acggatttgg gtggtcgtag 180

attctttgag agattagnca cttaaaattc ctttgaatac aatccccctt tctcgatgta 480
cccttctata tataatcgta ttgcttgatt catctacatg ttt 523

<210> 50137
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-A5

<400> 50137

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gcggcctcat ggactacgcc ttctcctaca tcgcacacaa cggcggcctc cacacggagg 120
aggcctaccc gtacctcatg gaggaaggca cctgccagcg cagcagcagc agcgagaaga 180
agtggccggg atcgtcggag gacgccaacg acgatgccgc ggtggtcacc atctccgggt 240
acgaggacgt gccgaggaac aacgagcagg cgctgctcaa agcgctggcg caacagccccg 300
tcagcgtcgc catcgaggcc ttccggcagga acttcagtt ctacagcggc ggcgtcttcg 360
atgggccctg cggcacgcag ctgggccacn gggtagcggc cgtc 404

<210> 50138
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A8

<400> 50138

gggagaaatc agacgggtccc aattaatacc acgaaattcg catgttcacg atgttgaaaa 60
caacgataga gacatcaagt tgtgtgcacg gtgtactctg attcgtatga actatgcatt 120
tgcctatgga caaggaatct gagtatttaa gaactcacgc ctgctgtaca tgtaccatt 180
tatttggtt ttctactttc cacacgccgg agcatccac acgcgagatg ctttgtggca 240
tgccttgaat ttgaatatac ttcaagctcc atccacggag acgcttacca tttgttatgt 300
gtgtcatcaa agattagga ctcaatatct tgcaccacat gatcatctat ctcaattctc 360
agggtagagt tatgacccaa cttgac 386

<210> 50139
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A9

<400> 50139

cggtctcgga attctccggg tcggaccgca cgcgtctcgg ttgggttcta ctatcacgac 60
 gacaatacat ggtggaagct ctgcgaagaa tcggagagtg gggtagtgta cgctcggcag 120
 atcgggtgggg agtctgaggg ctactctcgg acacggcttg atcgagagtg aagagtcacc 180
 ggccggacat acaagcatgc tgctatcccg ctgcgcatcta cctttcatct taaa 235

<210> 50140
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-C11

<400> 50140

acctgggcga cctggttggg accgcctagg ctgctaacct tgcttttggg gcgcactgtg 60
 agtcatcgac tctagtcata ccttactgtg atgggctttc ggtctcttac attttatggg 120
 ttgagaatgc ctctgatgtg atatgcaact ggcttgctgc tattaggcat gatgggctgg 180
 ccgggcaa at ggtctacata tgcttctact tctgtggcat atcattcctc atctgtatcg 240
 ctgatagagg catggacctc gtcttagata tactaggtgt gccgacgtgc acggagatgt 300
 agatgagcat gccatattga tcgatatata tttt 334

<210> 50141
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-E1

<400> 50141

cggaattccg gtcgaccag cgttcgccag cgtccgcca cgcgtccgcg gcgagctctc 60
 taagaggctc ggtggaacta ccatggggcc atcaggaac ttgaggagaa gaggaacgag 120

ttgaaccctg ggaccatatc gaaccctgtc gcagcatgca aataggaggt gtgacctaaag 120
aagctaactt cgatcgaca 139

<210> 50147
<211> 323
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-H5

<400> 50147

cttacggacc gtacggcagg gacgagggca ccccgttccg tgtcaaggtg atgaacaacg 60
gccacgtcgc tggcttcttt ggccgctctg gagattgcct ggacgcgatc gggctctacg 120
tgaaccccaa ctaataacta aaacgatgga tcggatcatc tgcattgatg catatgcagt 180
atgcatgctg cttgcctgcc tgtaacgaat atgaatgcat aaaataacgc ccctgctgct 240
cccatgcatc agcagtgtgt accactatgg tatatatata tatattatac tggaatttcg 300
ctaaccgaat aaaaacatan att 323

<210> 50148
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A3

<400> 50148

taccggtctc ggaattcgag ccacgcgtcc gtccacgcgt ccgacggatc tcagttttac 60
ataactacta tcaagacaag ctggttggat ggggagcatg ttgtcttcg cagggtgatc 120
caaggaatgg ataccgtgta cgccatagaa gggggcgctg ggacttaciaa tggcaagcca 180
aggaagaagg cggatgatcac cgacgctggt gagataccca aggagaaatg gggatgatcag 240
gaagcgtagg gtgtttttcta cttcttgtca ctttcaaatac aggtagccat gtacttcttt 300
tttccttgac ctccatggtg tgccacggtt cagcaagact tccggaatgt tgtatatcgt 360
agctagctta tggccagtcg aattgactct gatcccttga gttgtgatgt ggagacgcac 420
acatctgaaa aatctt 436

<210> 50149
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-A6

 <400> 50149

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 gtctcagatt tgaaggatcc aaacaagaaa ttttaatttta ctagatttga aaggaattgg 120
 tttgagaagt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa 180
 aataaaaaaaaa aaaaaaaaaa ataaaaaaaa aaataaaaag taaataaaaa aaaaatatat 240
 aaaaaataaa aaactgttga cgaacaatta gaagatagta aaaaaatata attgaaacaa 300
 aaaaaattgg a 311

<210> 50150
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-B1

 <400> 50150

 tacatctttg ccatctgcat aactagccc tgggtgtccga ggttttatcc tagcaacagg 60
 atttggtgca tcaactgtatt tcctggcaaa gaaaaaatatg aacttaggta aggctgcatt 120
 gatcactgtc gggggacttg cagctggtgc aactgtcggg tctgcagtgg aaaatttcct 180
 gcaggttgat atcgtgccct ttctaggcat cactcccc gccgtcgttg tcagtgaatt 240
 tattctgttc tcccagttgt tggatcact gtttgtagg taggatctga aatcaagctg 300
 tcatcctgat catggcatgt aagtaactga aatggttcgt gttcaaactt caaaggggtca 360
 gggaaatgct tattttccgc tcaaggtgca agcagctgtg tatagc 406

<210> 50151
 <211> 60
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-B12

 <400> 50151

gtttggagac tacgtacgcc tgaagcaata gcaactttgc gagaaaaaga aaaaaaagag 60

<210> 50152
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-B5

<400> 50152

tcccgggtcg accacgcgtc cgtgtatcgt gcgccgacac tttagctttc acccaacggc 60
atcaaattat gggaggccgt gtctttcaag accgaatcg acatctttaa tgattacttg 120
ctttactacc tctggaacct aagcctcatt cacacacaga tcatcattac catctgagcc 180
taacaggttg ttctgatggg atctggtgat cgctaccata atctactttg cccgtatcat 240
gaggtcgtag acccgttcta cctcctgctc agctacgacc cgctcgggct tgatacgacc 300
tgaaggcctt cttcgagctc aaagacaatg agctcaagaa ctgtctactc tccatgatct 360
ccat 364

<210> 50153
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C7

<400> 50153

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caagtccaac gaccccgtag gcttcaacct cgtcgacgct ctcgcctggg gctcgctcgg 120
ccacatcgct gcctactaca tctcgcgccac ctccagcaac ggatacgacc ccaacttctt 180
ctgagcggcc ggctgcgggc atgttcttga gcctgcctgt attctactcc gtgtgtgttg 240
agccatatat ctgatgctca aggattgggt aatctgaaca agtgggtgcaa ctgcgcgtgt 300
acatggattt gctcttctc taaaaagaaa ct 332

<210> 50154
<211> 475
<212> DNA
<213> Zea mays

ggagatcac

309

<210> 50157
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-F6

<400> 50157

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aagtattgga ccatgataca tttggaaagg attacatagg gaggtgcatc ttgacactga 120
cgagagttat actcgaagggt gaattccaag atacctttgt cttgcaagggt gccaaatcgg 180
gaaaactaaa cttgcatttc aagtggacgc cacagccaat ctatcgtgat cgtgacaggg 240
atcagtgaga cttgtaaacg aaaaaggccg ataaacactt atccccaacg gtgctatgta 300
tattagtcgt tctgtattta caaaatecca cggttcttat agccacgtga ccaaaaagag 360
atcaaccacac cgacctgtat tttctccttt gtgatgcaag tcagcaagtg catggacctg 420
tatatttgag tc 432

<210> 50158
<211> 470
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G10

<400> 50158

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gtgggccagg acatgcggag agctcgaggg tggtaggta tgacgctgac taaccaatgg 120
tgctgcgacg tctgacggaa taacagacag gtgacgtgct tgccgactca gacgacgtgc 180
gccaacagga acgagtacct attatgggac gctttccacc ccacagaggc ggtcaacata 240
cttgctcggtc ggagggcgta cagcgcgtcg ctgtcatccg acgtccaccc catggatctg 300
cgcacgctag ccaggatcta gctgtatgga tcatgtaaac tcgctaagag aagcacagct 360
tacagagtct tgctttgcac agtgctttgt atcccctcgt gattgtattg cttaccactc 420
gctaattggac gtatgggtccc tacatctaaa ctatttatat aaacatgata 470

<210> 50159
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G4

<400> 50159

cggaattccc gggtcgaccc acgcgttcgc ccacgcgtcc ggaccacagc cagtcatcca 60
catcactagc tatctgtgca aaggcagtgg cgtccaaggt tgacctggtg gtggaggtca 120
agtccccggc tgacaagctg tgggcggcgc tgcgtgactc gacggagctg ttccccaaga 180
tcttccccga gcagtacaag agcatcgaga ccgtcgaggg cgacggcaag tcggccggca 240
ccgtccgcct tctcaagtac accgaggcgg tgccgatgct gacgttcgcc aaggagaagc 300
ttgagacggc ggacgacgag aacaagggtg tgctgtacag cgtggtggac ggcgagctgg 360
cggacttcta caagaacttc aagatcacgc tgaagggtgac tccggccaat gcggatggcg 420
agggcggcgc cgctcgtcagc tgggccatgg agttcgacaa gccaacgacc a 471

<210> 50160
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G8

<400> 50160

cggacgcgtg ggtgcatccc aaatgtgtga tgtaaactga gacagaacag cagccagatg 60
aagcagagat ttgctgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaagaa aaaaaagggc gaccagctgt 180
ataggatcca agcttcata cgaatgcatg ctacactata atattcctat agcactacct 240
aaactcatgt aataggccga cattaaaaaa ctggtctact ggaaaaacct tgacggtacc 300
t 301

<210> 50161
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A5

<400> 50164

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 ctgcgctcg tcatactggg gctctccaac gtcggtcca acgtgccgac ggtcctgctg 120
 ctgggcgcgc gcgtggcggc gtcggcggcg gccatctccc ccgcgggcga gaccaacgcc 180
 tggctcatcc tggcatggac gagcacggag gccgacaacc tctcgtgct gggctccgac 240
 gccaacctga tcgtgtgcta gcaggcggcg cgctcccagc agtacggcta cagctctac 300
 ttcttcagcc acctgcagtt tc 322

<210> 50165

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A7

<400> 50165

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 cccagcagaa gaagcgaagt ggtcggggga gcacgaggaa gagcgagcag caagatgtcg 120
 tggcaggcgt acgtcgatga ccacctgctg tgcgacatcg aaggccagca cctgagcgcc 180
 gacgccatcg t 191

<210> 50166

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B11

<400> 50166

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 acctgctaata gatggtctgg ggtgaatgaa gaggtagatg gaaacagaac agaaggctgg 120
 ttgtttgtag tgaaacactg aatatggtgt tgagctattc atattcattg gttcaatttt 180
 ctccatagca ttctagaata gagtatttga tggttggtga aacttcgctc gcaaaaaaaaa 240
 aaagttgttt ggatcc 256

<210> 50167
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B8

<400> 50167

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 ggtggtcagg ggcttcgctg agggctaccg cgtcggcggc ggcccgcctg gggaagggt 120
 cgacaagggtg taccctggcg ggccttcga cccgctgggc ctgcgcgacg acccgacac 180
 cgccgccgag ctcaagggtga aggagctcaa gaacggccgc cttgccatgt tctccatgtt 240
 cggcttcttc gtgcaggcca tcgtcaccgg caagggcccc atcgagaacc tcttcgacca 300
 cgtcgcgac cccgtcgcca acaacgctg ggcatacgcc acgaacttcg tccccggcaa 360
 ctaactgact gagcaacgcc gtacatgtgt actaccatca gatccatcca ttcgttcgtc 420
 cgtccgtcta gtgaacagtg tggcttc 448

<210> 50168
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B9

<400> 50168

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 ccacacgtcc gtgtaggagt gcgaatacgc ttagttcagg ccgctggctt ggttgatgt 120
 gcctttgatc agcagctaga atctggtgaa cgagaagtag cttgagaccg acaacggaga 180
 tctggccgac aggatatggc cggacttaag gagccgatcg aagccaagta acggctcttc 240
 gacggaaatg acattggaca caccaattac gatccatata gcacagtctg ctactcaga 300
 tgagtaatga ctagatctac ggccacatgc tcatcaatgc tggcatgata ttggagaata 360
 atcagacact ggtagagctc cgagttccag tcggagacga ccgagtaggc tgcatta 417

<210> 50169
 <211> 373

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-055-Q1-K1-C9
 <400> 50169
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 ggttctaccg cctgctggac ttcgccatgg accccgacgg catcaggggg atggcatact 120
 accgcaagtc cgctactacc gccgcttgat tcgtctcgtc tgtcttgtac tcattcatca 180
 atgaaggaag tcgatcgaat tccctaaagc ccccatgtt tgtatgatgt agatatgaca 240
 tgggtttatth ttatcactca tctcatagtt gctcgthttat tatctthtcat thtatattcc 300
 gcgaaaacga tctagctaga acatgtactt atatttcgcg caaatcaagc aatataaaaa 360
 cctcacttca aaa 373

<210> 50170
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-D3
 <400> 50170
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 ctttttagcat ggcgtctctg gcgttcggca gcaccgtagc ggcggccgtg gcggcgacct 120
 cggggaggac gcggccggcg cgccgggtccg tgctggctcg gccgcccgt gccagcaggg 180
 gcggcccggc gccggccaag gaggagaagg gcctcggcga gaccatcttc ggcttcatct 240
 tcaagaagga ccaactggtg gagacggacc cgctcctcaa caaggtcggc gccgcgccgg 300
 ccgccgnctc ccgcgccaa acgaccgccg gcaagaaggc tgccggcggc gacgacagcg 360
 gcagcgggcg ggggttcaac ctcggc 386

<210> 50171
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-055-Q1-K1-D7

<400> 50171
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 ttgcaatggt ggaagaaagc aaggagctta catcatcaac aagatggagc aaagcaatac 120
 ttatgtttga agatgatgaa agattcaaag cagttgagcg tccaagggag cgtgaagatt 180
 tatttgagaa ctatcttgtg gaactgcata agaaggaaaa agccaaggct gctgaagaac 240
 aaaaaagata tgtagcagag tacagagctt ttctagaatc atgtgacttc atcaaggcaa 300
 gcactcagtg gagaaaagtt caggaacgcc tggaggacga tgaacgttat tcccgacttg 360
 agaagtttga tcggttggat atttttcaag agtacattcg acacctagag aaagaagagg 420

<210> 50172
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-E4

<400> 50172
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 ctgtgtacaa ccctgccaca atgtttggaa ttcatgtcac ttctggcccc atccacctga 120
 tgtattcaga gatcccaata gcagtcggtc aggttcggag gtattaccaa ccgaggaaga 180
 gccaccggat ggtgactgag gtcattccacg gcgagaaggt gccgctgtac ggcgccgggg 240
 gcagactgat gctgtcgacg agcacgggag gngcgggtgcc cctgacgctg gactaggacc 300
 tgaccttgac gggctacgtg atcggcaagc tcgtgcgggt gacgcacaaa gtgcacgtga 360
 cgtgcctcgt cgtcgtggac g 381

<210> 50173
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-055-Q1-K1-F9

<400> 50173
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 gtaggtgcca aagcagcacg gagctgagga cacggaacct ccctataagg gcctggaaac 120

gtactcagtg cccagtaatt cgcattctgtc agctatggaa acgttggcca tgcttctcaa 360
gtaatgaaat aattcccgtg tcacctcatg ctacatacag cagattgggtg t 411

<210> 50176
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-055-Q1-K1-G12

<400> 50176

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ccggcgcgac ggcgttggtt ggcgaggcac agtcgacgcg gcaaaggcgg cggcaggcaa 180
ggagcccgtg agcccgggca ctccgtcttc ggtggccgcc ggccgcagca gctgtgagga 240
gaggcgcgcg gtggacggcg tcgccctgcc tgggtggaag ctgcagccc tctgccagga 300
gtcctgcccg tcgccggcca tgagggcgcg ctttccttac tacttctgaa gc 352

<210> 50177
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G8

<400> 50177

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tcattctttag tcagtctatc cattgtttgc tccagtcctg gtgattaaaa gtctgcaaat 180
tctgtttgcg gaattggcat gcgatacaaa ttaggcttct ttaagtaaata ccggttgccg 240
gtacacagct gtattaattc acctgtcact gaatggaata ccgagatgca aaaggcacat 300
cactatgcct gactaaaata acacggtgaa ggttcagcct tgctgtgggt gctaaacaaa 360
a 361

<210> 50178

<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G9

<400> 50178

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ggagtttcat atcccatgca tgatgctgtc cataggtttt caaccacat gcacccattt 180
gggtgggcta atcatctgga tgaatcatgc ccacctcata tgcaagtttg gaatggacgc 240
agtagtgtgt ttccgggtga accctatatt tacggtagac aagagtggga tcagaataga 300
cctcatggcg gcagcagatg gtgggagctg actggtgata tatccaagg accaaatgat 360
gtgccgatg ctgaacttct gatagctaag aaagatcctt actctgcaat aactgctgta 420
tctgattctg gtggacaaca taatcttcaa cc 452

<210> 50179
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H1

<400> 50179

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aatagtaatg tcacattaca cttggcatag tgtgagagaa agttctaggg ttaccaccaa 120
gcatactttt gcaactttat cattcattgc agaaattttc cttttcctct atgttggcat 180
ggatgcattg gacattgaga agtggaatt agctagtaac agtcctaata aaccaattgc 240
tttaagtgca attatttttg gcttggttat ggttgaaga gcggcatttg tattcccttt 300
gtcgttctta tccaacctaa gcaaaaagga agcccgcca aagatctcct tcaagcaaca 360
agtaatcata tgggtgggctg gtctcatgac aggagcaatg tcaattgcgc ttgcctatga 420
cacgtttaca gcatctggtc aactgaaat gcgagtcaat gctatcatga tcac 474

<210> 50180
<211> 222
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H11

<400> 50180

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atactactac cgtcctgtcc tgatccagct caccaacatc ctagtcaact gcaagcaatg 180

cttaacccaa gctgactacc ttgaacttaa agatgatcat ca 222

<210> 50181

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H3

<400> 50181

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ccctctcccc gcgcgctgcc cttccgcgtc cgggccagta gggcagcgcg gcgtccggcc 120

ttcgtctgcc gctgcagatg ctccccggac gcgtaccgcy tggccacccg gcggctgttc 180

gcctgcctac ttgccaccgc agcagctgtg ggaggtggcy tggccggagg cggacgagaa 240

gccggcgcag tgtccaccag ccagacggca ctcattggcy gcaagattcc tgagagcgaa 300

ttcaccacgc tgcccaatgg cctcaagtac tacgacatca atgtacgaag tgatgctcaa 360

gctgataaag gatcccatgt tgcggtacat tatgtggcca agtggaaggcy catcacattc 420

atgacaagtt ggcattggtct 440

<210> 50182

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-A10

<400> 50182

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ttgcttgcca caatatttag gggcagggtt cactggcta 99

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $\epsilon \rightarrow 0$. It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

<400>	50183
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<210>	50184
<211>	183
<212>	DNA
<213>	<i>Zea mays</i>

<400> 50184

<210>	50185
<211>	349
<212>	DNA
<213>	Zea mays

<400> 50185

21495

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 aagtaaaggt tgtcgactta ccggatagag acccttttga agacgacga 349

<210> 50186
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E1

<400> 50186

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 cgcgggagga taatgtttac atggccaagc tggctgagca agcagaacgg tacgaggaaa 180
 tggttgagta catggag 197

<210> 50187
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-G9

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 ttcagtttca gcattggtca gggttcagtg atcaaaggat gggacgaggg agttatgacc 180
 atgcaagtgg gtgaagttgc tcgtatccag tgcacgcctg attatgctta tggagccggc 240
 gggttcccag cctggggaat tcaaccaaac tcagtgcttg tgttcgagat tgaagtcctc 300
 agtgcaccag aattcgcatc tgtcagctat ggaaacgttg gccatgcttc tcaagtaatg 360
 aaataattcc gttgtcacct catgctacat acagcagatt ggtgttacga gttaaattcct 420
 gtgaaacttt agcattctgt aaccgtggat gtcgagttta t 461

<210> 50188
 <211> 230

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-057-Q1-K1-A10
 <400> 50188
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 cagggaggag agcatgaacg ctctgcactg ggcgctcgac aacctccgcc tgcaccccaa 120
 ctgctagctc gtcgtgctgc acgtccagcc gctgtccaac atcgacatgg gactcaaccc 180
 ggcgcccatc cccttacgca gcctcattca gttggagggt cctgcattca 230

<210> 50189
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-057-Q1-K1-A11
 <400> 50189
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 cagctggacg tgaaccagac ctactacggg aagctgggag agctccgctg cctgttcgcc 120
 tacgacgtcg ccattctggag tcccgtcacc aggtctttgg caaaggtacg gctgccacag 180
 catcagcttg tcgaggacta ctacctcggg aagcacaggc tgagccacgc gcagagcatg 240
 atcgggatct cagggctgcc acatggcgct catgggagcc ctcgacggat accggattgt 300
 cgacgggccg gttgattagg ctattgagcc ggtg 334

<210> 50190
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-057-Q1-K1-A2
 <400> 50190
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 gcatgcaaga cacacatcag agtcccgagt catgtaccaa gaaaactaaa tcccaccgga 120
 taatgggtca cttgagagaa gcagtatgaa gctagtaata atgtgtgagt ccaccactg 180
 tccgcacaat taaatagtcc attccacct gggacacatg gcttcatcat caaaaccgta 240

tactgtgtgc attgtgctgc gcagaaaact atttcgacgg cctgtctgct ggattgact 299

<210> 50191

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B10

<400> 50191

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gggttctgtc aagaggcttg tccagtcgat gctattgttg aggggcctaa ctttgagttt 120

gccactgaga cacacgagga actactgtac gacaaggaga aattgcttga gaatggtgat 180

cgctgggaga ctgagattgc tgagaacttg agatctgaga gcctctatcg ctgaatctgt 240

cttcattat ggttgataaa ctgggttctt ccattttcca tattttgctc aactagctga 300

tgaataagca aacgatgtat cataacttag gtacgatgtt tttgtacctt ggcaccatct 360

gtgtgttttg t 371

<210> 50192

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B2

<400> 50192

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gggttctgtc aagaggcttg tccagtcgat gctattgttg aggggcctaa ctttgagttt 120

gccactgaga cacacgagga actactgtac gacaaggaga aattgcttga gaatggtgat 180

cgctgggaga ctgagattgc tgataacttg agatctgaga gcctctatcg ctgaatctgt 240

cttcattat ggctgataaa ctgggttctt gcattttcca tattgtgctc aactagctga 300

tgaataagca aacgatgtat cataacttac gtacgatgtt tttgtacctt ggcaccatc 359

<210> 50193

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B9

<400> 50193

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cctgcagctg gtcgaagaga agaaaaggag gatcctcgag aagaaagaag cccactaaa 180
gtggcagcag aagcttgaag caccagttaa cgtcaaagct gatgcagaag cgaaggcgaa 240
aaaactaaca tcaagatagc ataggaggag aggagattct tcctcggact ctgacagtga 300
ctatgacagc gaatgtgatc ggaaacaccg gaggaagaag gatcgtagaa ggaa 354

<210> 50194

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-C1

<400> 50194

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cacctggtgc agcagctaata cgtgtggctt tagaagcctg tgtacaagct cgtaacgaag 120
ggcgcgatct tgctcgtgaa ggtaatgaaa ttatcaaagc agcttgcaaa tggagtgtctg 180
aactagccgc agcttgtgaa atatggaagg agatcaaatt tgatgggtttc aaagcgatgg 240
ataccatata aattaaaaaa aaaaaaggac ataaaaac 278

<210> 50195

<211> 226

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-E2

<400> 50195

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tacattacta catttcaaac ttcattgcaa agtagaatat atatggacat aagatcacat 120
ggatgttgct ccacactttt tagcacacac agatatacaa cgcanatata cattgattgc 180

ctgagagcaa gattgtccct gccactgcta tccctgatga ctggatgggt cttgatgttg 360
gccctgatgc caccaaaaca ttcgacgaag cattggacac caccaagact gttatttgga 420
acggcccat gggagtgttt gagttccaga agtttgcac 459

<210> 50201
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D5

<400> 50201

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ttgaggctgg agtttcagag catgccagga cccttgcccc aaaaggttct gaccctcaca 120
aggcggctgt cattggtgac accattggag atcctctcaa ggacacgtct ggccttccc 180
tcaacatcct catcaagctt atggcggttg aatcccttgt cttegcctcc ttcttcgccg 240
cccatggtgg cattctcttc aaatggctct aagccagcga gagacgcagg ataaaggccg 300
tagttttgca aggcgagtag agcagtatgt cagtaataca gcatctatgg catgtgcttt 360
tgctcgcca gttcatgagc cccgttgtgt atttggtttc ccgtttct 408

<210> 50202
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D10

<400> 50202

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ggagctcgcc ttcattcattg cagagaggct caggaagagg acgatgccgt cggggctcaa 120
caacagcctg cctctgccac cactggcttt ctaagtagcc gaagctgaac agagaaggta 180
gagggatagt tgcggcgact cgaaagatta cgctgttta ttgctgatg cttggtgtgg 240
aggcctggcg ggcgtcttg gcacaagtta catgctgggg agctatagga gggtaacctgt 300
tgcgttgtgg aagacagtag ctagtattat gtgttgtaat tgtatgcctt cgattcatgt 360
tctgagtgcg tgacttgctg actttgctgc ttctgggggt ctgaccttgg taaggagaga 420

atataga

427

<210> 50203
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H12

<400> 50203

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aggcaaatat gtggtggata tagataagag cattgatatc actaagatca caccttcaac 120
aagagttgct cttcggaatg acagctatat gtcctatctg atcctaccaa gcaaagttga 180
tccattggtc aatctcatga aagttgagaa ggttccggat tctacctatg atatgattgg 240
aggccttgac cagcaaatta aagagatcaa agaggtcatt gagcttccaa tcaaacatcc 300
ggaactgttt gagagccttg gaattgcgca accaaaggggt gtccttcttt atggaccttc 360
gggcacaaga aagaca 376

<210> 50204
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D7

<400> 50204

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tctccaagat ttctcctgca caaagccctt caatgggctc tggcgagcag gcgttagagc 180
ctaaacatga gtcggcagct tcacctcgtc ctgaaaactt gaggcctgat gcattattct 240
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gcattgatgc cgagtacaaa cctgttcttg gtgatggaat tgtgctcgat tcttcgtcat 360
ggaacaacat gcaacatgct tttcagatgg cgggattcaa atgagttcca tgcaccttgt 420
t 421

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-A1

 <400> 50207

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 aggtcacctt cgccaagcgc cgcaacggcc tgctcaagaa ggcgtagcag ctctcgggtgc 240
 tctgcgacgc cgaggtcgcg ctcctcatct tctccaaccg cggcaagctc tacgagttct 300
 ccagcacgca gagcatgcc aaaaacttg aaaagtacca aaaatgcagt tttgcagggc 360
 ctgaaacagc actccagaat agagagaatg agcaactgaa aagtagccgc aatgagtacc 420

<210> 50208
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-B12

 <400> 50208

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 ggatgatgtt gttattcagt ttgtgaatcc taaagtgcaa gcttcaattg gtgctaatac 180
 atgggtggtc agtggaaact cacagacaaa gaagctgcaa gatctgcttc cgtccattat 240
 caaccagctc ggacctgaca acctagacaa cctgcgga 278

<210> 50209
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-E12

 <400> 50209

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 gcaggtgctg tgcgcactgg ggggaagggt agcatgcgca ggaagaagaa ggcagtccac 120

aagactacga	ccacagatga	taaaaggctt	cagagcaccc	tgaaaagaat	aggagtgaac	180
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aatcctaag	tgcaagcttc	aattgggtgct	aatacatggg	tggtcagtg	aactccacag	300
acaaagaagc	tgcaagatct	gcttccgtcc	attatcaacc	agctcggccc	tgacaaccta	360
gacaacctgc	ggaggcttgc	ggagcaattc	cagaagcagg	cccctggtgc	ttcaggtgca	420
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<210>	50210
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<212>	DNA
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<400> 50210

<400> 50211

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 cg 302

<210> 50212
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-013-Q1-K1-G8
 <400> 50212

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 ctcagggtgct tgtctgaggg gctgcctcct cgttggcagc ctgctgttgg tgcactgtgt 360
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 cataaaagct acagttccat ctat 444

<210> 50213
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-H3
 <400> 50213

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 gcctatcatc ttttactgt caaatccaac ctctcattct gaatgtactg ctgaagaagc 180
 atataactgg actcaggggc gtgtaatat tgccagtggc agtccatttg accctgtgga 240
 gtacgatggg aagggttttg tacctggaca gtcgaacaac gcctacattt tccctggatt 300
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<210> 50214
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 50214

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cttgcaaaat atagcaagag ccatcttggt ttcaatgatg acatccaggg cacagcatca 180
gtggtccttg caggtttgtt agcagcactc aaggtgggtg gtgggacctt ggcagagcac 240
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gagatttcaa aacagacgtc ggctccaatt gaagagtgc gcaagaagat ttggttggtg 360
gactcaaagg gtttgattgt tgactctcgt aaaaactccn gtcagtcatt caaaaaacct 420
tgggcacatg 430

<210> 50215
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D1

<400> 50215

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actctatcca cgaagcgggt cgggccggag gcgcggcggt tcgagcacct tgcgttcctc 300
aacttcgcg agaatgtcgt atgcttcgtc tggctcttcc taatgactaa gttgtggctg 360
ggcgggagcg ggagcagctc cgacggccgt gcgccgtat cgaagtactg gggcg 415

<210> 50216

<211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-D10
 <400> 50216

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 gacttcaccc gcggcaacgg caccggcggc gagtccatct acggcgagaa gtcccccgac 120
 gagaagttcg tgcgcaagca caccgtcccc ggtgtgtctt ccatggccaa cgccggggccc 180
 aacaccaacg gctcccagtt cttcatctgc accgtcgga ccccttggct cgacggcaag 240
 cacgtcgtct tcggccaggt cgtcgagggc atggacgtcg tcaaggccat cgagaaggtg 300
 ggcacccgca acgggtccac cttcaaggtg gtcaaggteg ctgactgagg acagctctcc 360
 tagatctctc tgatctgggc tgttcggcgc acctaccttc gtcacgtcg actccccctg 420
 cgtccgttcc tttggatctg aataagat 448

<210> 50217
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-D11
 <400> 50217

ggtctccaag gacgcgtccg atgatgacct gaagaaagcc taccgcaagg ccgtcatcaa 60
 gaaccacccc gacaagggcg gggatcccga gaagttcaag gagctagctc aggcttatga 120
 ggtcctcagt gatcctgaaa agcgggagat ttatgatcaa tatggtgagg atgccctcaa 180
 ggaggggaatg ggaggtggtg gagggatgca cgatccctac gacatattgc agacattcta 240
 tgggtggcgga agcccttttg gaggcggtgg catcagtatg tgcacaaggc agcgaatggg 300
 ataagatgtg gttcatcctc taaaggctac tctggaggat ttgtacaatg gcacatcaaa 360
 gaagctctct atgtcccgca 380

<210> 50218
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D4

<400> 50220

caggatgata tgaacatgga catggacca tatgttagcc tgcctcaact gaaacaacat 60
ggaccagac attagccgct cttgtgctat cacaatggct gtgactctgt gagtatcttt 120
acagttatgc tcgttatacc cctgtggtgt acctgtttcg atcgtcttcg accaaatgtc 180
acgtcgactg cagtctccag ttgttaatac agtctgttca gcacgctgat ttaagtattt 240
gggtcaagat gttcatataa tcctgtggta tccagagata ttatagtttg ttttcgtaac 300
tgtttgcgca gagaccatgc tatgttgctt gcaggctatc agtgtatttg ttctaacaga 360
tcgcaacgct tgtacaacgc attgacctgc cagactgggc cacta 405

<210> 50221

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D5

<400> 50221

gtacgcctcc aattcgttct gaacaggcat gggttaaatc gagcaagcaa tgacacgagg 60
agaggggatca tacgaagcat agcgccaaca agaccaccgg aagctaggcc gcacgcaagc 120
acctgggcac gaaggtggcc aggaagtcgg cgccgacgac cgcacgcacg aacaagcccg 180
acaagtacag gcacaggacc atggccctga ccgagatcct gaagtacaac aagagctccc 240
agctgatcat ccagctgttg atcttgacgc gcctgttcca tgagatcgtt cacgacatca 300
atacggattt gcagatgcag atgcacgccc agatggacgt ccaagaagcc gtcgaggaat 360
acctcga 367

<210> 50222

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D7

<400> 50222

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gagtatggta tcttgggtggc caaacaagca tcaggccata ctggcgggtgc tactttccaa 120
acacccaggc tatcatatat gttgttgatt caagcgatac agataggctt gtaacagcaa 180
atgaagaatt ccatgcgac cttgaggagg atgaacttaa aggtgcagtt ggccttgtgt 240
atgcaaataa gcagtatctt tcatgcgcac tctatgatgc tgccattaca gagtcattat 300
aactacacac aatcaagagc cgacaatggg cgattttcaa aacatctgca ataatggag 360
aggggctctt cgaagggttg gactgggtca gttacacgct caaatctgta tcagcttatg 420
agccttcacc tcgtcatgaa tcatttgcgt gat 453

<210> 50223
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D8

<400> 50223

ggtggatcca cacacttctt gaccagcaga gaaggaggag ggtggattaa tgctgcaaaa 60
ttctggactg gtgcatcggc catgggaagc cttgctatcc cagcaattct gaggcattgt 120
ggcttaatcg agaccggggc catgttcacg gagttcacgt ctttcttcat cttgtatgc 180
acagtgtgt gttccatag ggcgactctg gatgaagact ggtaaagcg catttcaccg 240
acacctgaa ccctagcggg tcttgggtgc ttctgtccat gctaagaaat attcctgttg 300
gaagctaaca tggatctgta caaagaagcg tatttcgagc gtagccgtag ctgatgtctt 360
atgtagacac ttgtgaagat tatgtgggtca tgtggcaatg cagatgttat taccttcact 420
ttgactttgt cgtcacatgt tctatg 446

<210> 50224
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D9

<400> 50224

cttcaagcag ctaacataat taactcatgg gtgcatagag atatgccgtc gacgacccat 60
gatattctatg gttacttatt attgggcatg gagcacgtca tctcaatgga ggagatcctc 120

gggcccttct gggagctgct accaccgtca gcgccagagc cagagccaga gcgagagcag 180
cctccggttaa ccggcatcgt cgtcggcagt gtcataagacg ttgctgctgc tggtcacggt 240
catggtggcg gcgacatgat ggatcagcag cagccacat agtggacctt tgagaggtta 300
ctggaagagg aggcctctgac gacaagcaca ccgtcgacgg tggtggtggt gccgaactct 360
tgttgctcag gcgctctaaa tgttgaccgg ccgtcgggtga tggaagaggc ggtaatgat 419

<210> 50225
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E10

<400> 50225

cgctacccg gcgaggagct caagccggcg tacatggtca tctcctcgcc gcctaaagcg 60
gggccccggt tcgaattcct cgtcaaaagc gtgccgggag ctaccgcggg gcggctctgc 120
gccctccgag acggggatgt tgtggagctc ggcgccgtca cggggaaggg gttccccctc 180
gacaggataa atccgcccga cgtcgcgcag accgtgctca tcttcgcggc ggggacgggg 240
atcagtgcga ttcgatcact tatcgagttc ggtttcgtcg ccaaagaaag agctgatgtg 300
aggctttatt atggtgatac aagtctgaaa tctatgtcat accaggaaag gcttagtaac 360
tgggagtcaa ctggaattaa aataatacca gtcttatcac aaccagatga cagctggaaa 420
ggtgaacgag gatatgttca ggatgctttc ttcagaaac 459

<210> 50226
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-B2

<400> 50226

ggcgggagcag cctgtctcgg agcctaaagg tgatccgcgt cctcttctgt cacgggtccc 60
gggccagcgc caccgtccgt gagtacgtga agaagaacta tggtgacatc aaggctcgca 120
accctccct ccccttactt gtccgcgagt gctccggtga ccagaccag ctctgggagc 180
gctacgatat gggtgaggag agatgcgtgt acttgatgg cctgacggaa gcacagattg 240

atcaaaagct ggaggagctt gccaaaggccg gcgagtatct taaaaccaa taggactgag 300
aactctatgc tgccatgtnt aacgtgtgcc aatcaatgat gccatatggg tgagcaattg 360
ctactctatc gttatctgta tttgtgcctg gaattaagtc gttaattggc ttaactgtgt 420
gaaaatgtca ctaatgtctt acttaaaa 448

<210> 50227
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B3

<400> 50227

ctgaaagttg atctgagcag tgcaatatat aattctggca tactattctc gcaatcgttg 60
gggggttcag aatgggactg acatcagagt aatatgtggc ataccttctg atcctctgta 120
ctcgagagga ttttgttgtg gataagccac ttgctgcctt tgtttggtgg gtaattgctt 180
cgagcataag aaacagcgta tgctgctata aacgtctttt tgcaacgcga aaaaaaaaaat 240
accatagaaa aaagaaaaac aaaaaagtga aggcacagaa gagagaatca aaggttgcaa 300
gattttatca ctaaggctat gaagaacat tgcttaagct gatgagaatg aaaactgatc 360
atgctggact agttattaat gctgaagaaa gaacgctttc cttgac 406

<210> 50228
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B5

<400> 50228

cgagcctgct atagtgaatc atgcctcctc catggtgttc aatggatgcc acccaagggt 60
ggaataacag aaggacaaat gcttaaattc atgggcgcaa acatacactt atctccaaca 120
caagccaaga tactgttgga ggatgagact gctggttttg catatttgaa tcttcaggaa 180
gcatgtccac cattatattc aattattggg ctcagggagc atattaagaa acggccacca 240
ttggctacct ctgagaaagt tcaacaattt gtgagggcac gggggagaga atcaatgggt 300
gcaggatttt atcacgaatg ctatgaagat ccattgctta tgctgatgag aaggagaact 360

gttcatgctg gactagttg

379

<210> 50229
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B6

<400> 50229

cccacgcgtc cgagcaaagt cagcatcctt gcaactagt caagggttct ggagagacag 60
tcagcgacaa ggatagatgc ccacagtgc aggggtgataa agttgtgcag gagaagaagg 120
ttcttgaagt gtttgtggag aaagggcatgc agaatgggca gaagatcaca ttccctgggtg 180
aagctgatga agcgctgac actgtcactg gagatatcat ttttgttctc cagcagaagg 240
agcatcccaa gttcaagaga aagggcgatg acctcttcta cgagcacacc ctgaccttga 300
ctgaatctct gtgtggcttc cagtttgttg tgactcactt ggataacagg cagctgctga 360
tcaaataaaa tccgggagaa gttgtgaagc ctgattcttt caaggcgatc aacgacgaat 420
gcatgcccac g 431

<210> 50230
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B8

<400> 50230

gaaagggaca ggggaagtga cgggtgcagct tgccgtcgag ctgtcgggtg ccgctcctac 60
gatcgaggcg tccttggact cgaggtttct gagcgggctg aaggacgagc gggaggaggc 120
ctccaagatc ttccagggtg actactactc caccggctcg ccggaggaca aggctcatct 180
ggaggaggac gtgaggcatg ccctgtacgc gtccaagatc tgcagctacg cgcagggcac 240
gaacatcatc aaggccaaga ggcgggagaa aggctgttgg ctcaacctcg gcgagctggc 300
catgatctgg aagggcgggt gcattatacg ggccatttta ctggac 346

<210> 50231
<211> 447

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-035-Q1-K1-C11
 <400> 50231

cactcactca caagtcacac agccacactt gaaccgctgc ccgcagcgga gggagcttgc 60
 gcggggccaac gcacacataa cacaagctcg tcgtcgatgg cgcggtgggc tgcggtgctg 120
 gcgctggccg cggccacggc catcgccgtg gcgtccgtgg cgggcggcga catgagcgcg 180
 gacaagacgg agtgcgcgga ccagctggtg ggcctggcgc cgtgcctgca gtacgtgcag 240
 gggcaggccc gcgcgccgtc gtccgactgc tgcggcggcc tgcgccaggt gctggggaag 300
 agccccaagt gcctgtgcgt gctcgtcaag gacaaggacg accccaacct gtgcatcaag 360
 atcaacgcca ccctcgcgt cgcgctcccc aacgcctgcg gcgccacccg cgccaacgtc 420
 tnccactgcg ctcagctcct gcatatt 447

<210> 50232
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-C12
 <400> 50232

cagattcaaa tccactctct aagaaacata catctcattc tcatcttttc cacgattcgt 60
 attctatata tacttcagca ccatactcca attaactctc acattataca taccataact 120
 caaaaactca catatactaa tctattatct attaacaata tataatatcc atcatcaaaa 180
 accataacta atctataaac aaattctaaa cctatca 217

<210> 50233
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-C2
 <400> 50233

agaaagtact aaccacaatg aagatgacca ttccgatagc cctatcttct ctgctctgag 60

cacactcttc tctgatccgt tctcatccga cgatgatgaa agtggtccac actcttacga	120
gaactgaaga tagcgtcgga cgcaggcttg caatatggtg aagacgttct gcttctgagg	180
ctggcatctt tatattgtag cttctgtaca tatctctctg aacggtcgcc ccccataaga	240
caaactatta cctctccgtt ttactgaaaa ctatgtggct tgtaaatctgc tagtgcttgc	300
tatgttcact tgccctgaat aaatgttatc ctttagcgtg cttaaaaaaaaa cactcatgga	360
gctgcccgga gcccaacagt cccttaacct gctgcaaggc tt	402

<210>	50234
<211>	453
<212>	DNA
<213>	Zea mays

<400> 50234

<210>	50235
<211>	310
<212>	DNA
<213>	Zea mays

<400> 50235

gctgtccact ccttcagaat taccaactgc gagatccatg acaccacca cattcacacc 420
 cacatgtgct actccaactt taacgaca 448

<210> 50238
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A10

<400> 50238

cccacgcgtc cgcatttcta gagtaagtga tactctgggg gcattctccc ctcgcttagc 60
 tgtgcccgcc aggccatgga gcgtgaggac gccgacggcg ctctcgattc gtgggctcaa 120
 ttctgcactc tttccaacga gcttctcgcc ggagacgggtg atctcgccgt cggcccacgc 180
 ctagctcccg tcgttggtga cctctgcaca cgcggcctcg ccacgctcgt ccgcgactac 240
 tattacgccc tttgcttgca ttgcatcccg tgtagactt gtgctcatgc gcttcactgc 300
 atcctgttgt atctggatgg atttgaccaa atgcaaattg ccaacatttt tattaattaa 360
 aattgctact gcaatgtctc 380

<210> 50239
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-035-Q1-K1-A2

<400> 50239

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 ggaagtacga ggatttcaag aacgcgatgg cggtgatcag gccaagcttg cagaagagca 120
 aatgggacga gcttgagaaa tggaacgagg aatttggttc gagctgacgg cggctcgcac 180
 tgctgtgcc tgatgatgat caagcgggtc tatttccatc tgtatatatg atttatgtct 240
 cccacgctgt ggctcacaac acaaggggtc acaccatgcg cccattgatg cgtcctcggt 300
 gggctaggca gcacaacatc gacagaagca gaatgtaaag gtatacttct ggcaacggcc 360
 tatacagcca ttgagggcta gtttgaaaca ccgttcaagg gattttcatt nttcaaaggg 420
 aaattagctc attttcccg taaaaatgaa at 452

<210> 50240
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A3

<400> 50240

cccacgcgtc cgctcgccat ttctgtatta cttcatgtga tggtcctca gctggcctaa 60
atgcattctt gcaagacaaa ctggttatga ccaaactgtt acagcaacat cttttgcgcg 120
ccaagcaata gatgaagtct atggatgata agcaccgcac tgagtgtgaa tttgctgttg 180
gagatctgaa ggccgtgggt gtgctaacgt cctggtatct ccgttgctgc ctgccactga 240
ctctgcttgg cacattcatg aacagatatt ggagcgacat ctggtcgtcc caaccttctt 300
cgttggcaac atgggaagac ttggaagcac tcaagcacac ctttcctcag gctccagctt 360
gggggcaagc tggttctcat ggaagaggga atgtcagtat cccttcatca gtcactggag 420
gtcaggcaga gcatgttcga ggagatgcag ca 452

<210> 50241
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A4

<400> 50241

aatgatcgc tctctccaag atagccctgg tgtctgcggt ggcgctgctg gggctgggct 60
gggcgtacca ggccaccgc cgcgcgccc cggcgatctt gggcgcccca ggagggccgc 120
cgatcagctc acctagaatc cggctgaaag acggccggca ccttgcctac agggaggaag 180
gagtgcgcag ggagaacgcc aggttcagga tcgttttcat ccatggcttc tcctccacca 240
aggagagcgg gttccccgtg tcccaggagc ttgtggagca gctgggcata tacatgctct 300
tcttcgacag agccgggtat ggcgacagcg acgccaaccc gaagcgctgc ctcaagagcg 360
acgccacgga cgttcaagag ctcgtcgacg cgctgcagct cggggacagg ttctacgt 418

<210> 50242
<211> 422

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-035-Q1-K1-A5

 <400> 50242

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 gtgcattctt gcaagacaaa ctggttatga ccaaactgtt acagcaacat cttttgcgcg 120
 ccaagcaata gatgaagtct atggatgata agcaccgcac tgagtgtgaa tttgctgttg 180
 gagatctgaa ggccgtgggt gtgctaacgt cctggtatct ccgttgctgc ctgccactga 240
 ctctgcttgg cacattcatg aacagatatt ggagcgacat ctggtcgtcc caaccttcct 300
 cgttggcaac atgggaagac ttggaagcac tcaagcacac ctttcctcag gctccagctt 360
 gngggcaagc tggttctcat ggaggaggga atgtcagtat cccttcacatca gtcactggag 420
 gt 422

<210> 50243
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-A6

 <400> 50243

 gcggacatta cagtttagag atagaaagat taaattcttt gagagacgga agattgagag 60
 gatgataagg cgactcgaga agcaacaacg ttcaaattgtt gacggtgtca acaataatct 120
 gtcaaaattg cgagaagatc ttgaatatgt tagattcttc cctaagaatg agaaatatgt 180
 ctgctgttc actggaggga acagtcaaga tattgttcaa gagaggaata aatggcgcaa 240
 acagatcaag gagaatctca tggctgctgc agcaaacgga aaagatttag aagagacagc 300
 aagcgacgac gataccttgg atgtgagtga tgatgacttc tttatgtctg gaagttcaag 360
 tgatgaatag gctgatgatg agtggactga caaaagt 398

<210> 50244
 <211> 445
 <212> DNA
 <213> Zea mays

<400> 50246

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tggtgcaggc gggcatgggc cttacccggg tcgttatect cgtcggcgcc ggcgttgccg 120

gctccgtcgt cctccgcaac ggccgcctcg ccgagatcct cggcgagctc caggagatac 180

tcgacaaggg gaagaagggtg aaggatggag gagggggaga cggggaaacc gatctcaacg 240

aggctcttac ctcgcagggtg cgtcgccttg ccatggaggt ccggcaactt ggtaattcac 300

gttcaataac tgttgtcaat ggaagttctg cacaatcagg agtatcaggc ctgatagtac 360

ctgcagcaac tgtaggagca ctgagttacg gttatatgtg gtggaaggcg atctcgttct 420

cagatctaata gtatgtcacc aagcgcaaca t 451

<210> 50247

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-B11

<400> 50247

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gcttgactg cgaggacggt gaacgatgtg aacccccacg agtttgtaa ggcctactcc 120

gcccattca aacgctccgg caagatggag cttcctgagt gggttgacat tgtgaagact 180

gcgaggttca aggagctccc tccttatgac cctgactggt actacatcag ggctgcatct 240

gtagcaagga agatctactt gagacaaggc attggtgttg gtggcttcca gaagatttat 300

ggtggccgcc agaggaatgg ctacgccc cctcacttct gcaagagcag tggtgccatt 360

tcacgcaaca tcctncagca gctgcaggag atgggcatca ttgatgtcga tccc 414

<210> 50248

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A1

<400> 50248

ctcctcccct ccttccaccc ggcaataact tcgcgtcggc cactctccgg aggcgactag 60
 ggtttcagcc cctgggacac gccgcccgtc gtggcacctc cgccaccgga tcccgggtacc 120
 cgagctacgc catcgccgcc ccgcccccg taccgcccgg tgcgcttccg ccgacaccag 180
 acgcagctcg tccgccccgt cacgtgcacc tctgctgag cactggattg gatagcgttt 240
 gcagtttcgg cggttgggcg caaatcctac cgctgctgct cgcgcacgat gtctcgagcc 300
 cttgggggtc ccctactacg ctccggctgg agttctctat gaaacttggt ctacagtgtc 360
 cttttggtgc atgac 375

<210> 50249

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G11

<400> 50249

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 gatcgtcgcc ggcacgatgg ccagctcgtc gtcgctcgctc tcagctctgg tcgtcctcgt 120
 ggtggttcta gccgcccggg tggcgtgctc cgcgacgcgc cccgtccccg cgcggcagcg 180
 ggcggcggcg gcggaggagg aggacgtgag gcggccggac acgctgcacg agggcacggt 240
 gctgatcccc gggatggggc gctacgagat cggcagccac tacattccgg acatcggcgg 300
 gctggaccac agcgttcccc ggcgccacca cgggcagttc atccccggcg ccgacgacac 360
 ctgggtgccc aacctcgggt tcgaggtccc caacccttc cgaccggcg cggccactcc 420
 atgaacact 429

<210> 50250

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G12

<400> 50250

cccacgcgtc cgaaaaaaaa aaaaatatat aaaaaaaaaa aaaaataaaa aaaaaaaaaag 60
 gaaaaataat aagaaaaaaaa tagcctaaac aaaaaaaaaa aaaaataaat aaaaaaaaaat 120

gagtaaatat atatagaaag gtcggctcct ttcattggttc agacgtttat caacttcggt 180
tctgggggtct tcattcttat ttcgcgcacc ctaatttgag taagttgtcc ccttttaaaa 240
accttgcgta atgtaaaaaa tttgggtacc cctagttttt ccctttaggc acaaaccct 300
tttcttgaat tgcctaatac tttgcacggc ccataaatgt cggcttttta aaa 353

<210> 50251
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G2

<400> 50251

caaaaaaaca aaactacata taaaacttta atttaaaaaa aaccaaaaac aaaaacgcac 60
gtataatcaa ccacatacca actacaaaca tataactaaa aaaaaaaaaa atcttataaa 120
accctccatc cttcactaaa ccactataaa cacattataa actccaatac tcttcacccc 180
tctcatctca ttccccacat ttcccttcca acccttcc 218

<210> 50252
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G3

<400> 50252

cccacgcgtc cgagcaggtc catgggacgc tctgtatgga ggagggaata ccccggcggt 60
cggcttggct tccgtcttct acctggcagc aggtgtgctc gcagttctca agctgccaaa 120
gctgtccaac tcgtaccaat ctgccgggtt ccatggattt ggctgatgct catgccccaa 180
acacccccgt ctgccatgta aaacatcaca ccaacacttg gccccatttt gccattcggt 240
tacagagaaa tgattctttt ttctctgtac aactacagaa taatgacagt gaaagtagga 300
gtttagggtga gagaaagaga gaggctaggt aggttga 337

<210> 50253
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G5

<400> 50253

gtattctctc actgcgataa attcctccgt ctgtccttgc agcttatttc aaggtatgca 60
acatggcttt catgtgggtt atcagcacgt aaagcttctg acaggagccc aaattcacct 120
gcagatgctg aatggggcact gtctattcct atagaagatt tcatatatgt aagttacatc 180
tgcaataatg tctgaactcg tcatgtccca ataggatcta gcgtttttca ttctgtacta 240
tggacctagc tgcttaggac tgaaattttg ggtgctattg tcctatttat taacattatt 300
ctatgtttct gtattaagtt tatgcttagc ttgaaatttc tggagtttcg aagtagttat 360
aagatgacta gttgcttcag aagtgtcag taagtctgca ggaagtcact 410

<210> 50254

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-G6

<400> 50254

gacaaaaact acatatcagc cttggcagct tttaagaacc gtgtcctgta tgcgaacgtc 60
tcgtacgacc acatggctcg ctggcgaacg tcttcactaa ggagagagaa gaatcttata 120
aagccctcac atcgttcact ggatggctat aagcacattg tgaatgtgga atactgttcg 180
cccgtgtcat cggagggccc acatttcct tccaaggctg ccagagctaa agaagctgca 240
cagcgatcgc caaaccgaga aaataccgag gagtaccacc aaatgatgga ngaggagatg 300
c 301

<210> 50255

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-G9

<400> 50255

gccgccttct cgctcgtcgc cgctcgcacc gtcgtgctcg tcgcggagcc gcaccgcgtc 60

ctgtgggtcaa gagccagctg cgccaagagt tccatgttgc tgctcagaac tgctgggtga 240
 agaagggagg tgcttttcaact ggtgaagtca gtgctgagat gctcgtcaac cttggtgttc 300
 cctgggtcat tcttggaacac tctgaaagga gagctctgct gggagaatca aatgaatttg 360
 ttggagacaa ggttgcgtat gccctgtctc atggactaaa ggtcattgca tgtgttggtg 420
 agacccttga gc 432

<210> 50258
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H12

<400> 50258

cccacgcatac cggcaggata tgatactttg cttacaaaca gctgggtgaa ttgggctggt 60
 catggctatt gatacaactt tcagacgaag gagctctatg atcttagtta tgggcatgaa 120
 ccaccagaag gtccctacaag atttgagat tactttgtga caaaatgtgg tgtccttcta 180
 atgtcactct ttgtcttttt cacaaccacc atgtctgttt catttactct gagagaaaca 240
 caatcccga tgetttagatt cacagtgcag cttcaacacc atgcacgcca ccacctgcca 300
 acctttcagt tgatattcgt gcatgtcatc gaatcattgg attttgtgcc gattatgatt 360
 gggattctct ggtttctatt tgagttctat gatgatcaat tgcttgcgtt tc 412

<210> 50259
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-034-Q1-K1-H6

<400> 50259

gaaggacaca aaaacacagg tagggttagg cgacgcggcg gcgagagcgc gagagtagga 60
 ggaggcgctc gccatgacgg ggaaggcgaa gccgaagaag cacacggcga aggagatcgc 120
 cgcaagatc gacgcggcga cgacgaaccg gggcggcggc aaggtcgggc aggcggatcg 180
 gctagggcag gacaaggggc gggcacgcga agctggcggtg cccgctctgc cgcaccccg 240
 cgcccgacat caagtccatg cagatccacc acgaggcgcg ccatcccaag ctccctttcg 300

agccggagaa gctcgtcaac ctgcactcct ncacccccgc cgccgccgag gccaccacct 360
ccaagcccaa gcccgngtc cgcggcagcc tcaagaagta gctggctggc ttgcctgcct 420
gactgcctgg ggtaatt 437

<210> 50260
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H7

<400> 50260

aaaaaaaaa aaaacaaaaa aaaaaaatTT ataaaaaaaa aaaaaaagac aaaaagagta 60
ggtacaaaca taaaaacatg ggcgattatt gcaaTcctc ccattctttc tggctactga 120
cttcgactta atatgtcttt tcatacacca caatccattc aatttactcg ccttgggtaca 180
ccaacctgtt tggtcagaac acggtgttgc tcaccaactt ggtctgcttg ctcttcc 237

<210> 50261
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G10

<400> 50261

ggagagggga aaggcgagtc ggcgtccgtc cacgggagct tccctgcctc tccgggtccgc 60
ccccggttac ctagcccggg ccttgcctac cccatggcct cccgccgccg cacgatgagc 120
acctctccgg ccgcgtccgc cgccgagtcg gctgcgccga ctattgcctc cgtcgtcgag 180
gccttgaggg cgacggacac gttggtggtc gacgagaggg tcgcctcaca cgaggacccg 240
gtcctagtag aggcgctcga caaccctcgc caccggctca tggctctacg ggtggaactg 300
gagataccaa actctatgca caaccctcag ctgcaggagt tcgaattcca gaactgtccg 360
acttgttacc tacgctgtgc tggtcacgt gttgcacaac attatggctt agagactata 420
g 421

<210> 50262
<211> 365

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-E4

 <400> 50262

 gcagctagtt gctggtggtg gtggtatcaa gtctgtgaaa gtgacctatg catctgcgcg 60
 ggcccctgat gatcttgaca cgagacttct ccgtgcaatg atcaccaagg gattgattga 120
 accaatctcc agcggtttttg tcaatctggt aaatgccgac ttcaccgcaa agcagagggg 180
 agttcgcatac acggaggata ggatcctgct gtacgggtca cctgaaacac ctatcgacta 240
 cattcaagtt cagattgcca atgtcgagtc caaatttccc agtgcgatat ctgagactgt 300
 gagaaatcac tgtggagggc ataatgaagg atggtgttcc tcatctaaca aaagttggag 360
 cattc 365

<210> 50263
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-034-Q1-K1-E5

 <400> 50263

 cgcaaattgc accaagaaat ccatcgagag gccgtcgaca ggggaattaa tggggtcggc 60
 gtctagcagc agccaccggc gcctcatcct cgcagccgcc gtccctgtct cctgtctcgc 120
 ggctgccagc gccagcgccg ggacctcctg cgtgcccggg tgggccatcc cgcacaaccc 180
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccgg acgcgcagct 360
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgn 420
 caccctcgtc acggaggccg 440

<210> 50264
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-034-Q1-K1-E6

 <400> 50264

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 gactcgcaca gatcgggtgag cgagcaagcg agagatggct gggaggctaa ccgcggcagg 120
 gtcccgcatc ctgggcggcg gcggcgcacg cgccgcggct tccgccctcc gacaccgcgc 180
 cggcatgggc ctaccgcgctg gccgtcacat cgtcccccgc aagcccctcc ccgtgaacga 240
 cgagttggta tgggataacg gcacgccctt cccggaaccc tgcacgcacc gccttgcccc 300
 gcacatcggc aagtacgagg cgttggcgtg gctgtgcgga gggctagggt tcttcgctgc 360
 cctcggtatg gctgctgttg tgaacgacaa ggcctncaat ataccatata c 411

<210> 50265
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E7

 <400> 50265

 cccacgcgtc cgcccacgcg tccgaccaga agctgactgt gtgatagatg gacggaacga 60
 cgttcgaaga cgaccgcgag gacacgttcg agcaagaggg tgatgaagaa gactttgcag 120
 atgatgtcga tgagaactaa gtctaacgat gcaccagtca ccttcctatg gaagagtgtc 180
 catgtttaat tctattgtac tttgatgatg atacttttta agacactatt gtctaaatga 240
 tgtaataaag ttactctact ctctttacgc cttt 274

<210> 50266
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-034-Q1-K1-E8

 <400> 50266

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 caaacgggcc cctggtgcaa ggaaaggaaa gaaagagaag aatgaaaggc aacattctga 120

gaaggctccg aacagggcatg aagagatgcg tgacctgttc caaaatgata tgagtgaatg 180
gaaacagggga cgctcctcaa agaaaaataa caaatgtgcg cccaaaaaat caaggaactc 240
ttttaagagc aaagcaaggt acaagcggaa gtagaagact cggccatctc cgggtttata 300
ttacattccc ttgtttcaat ttgactgac tgatcctgaa gaaatatctg ggatccagat 360
gtttgcagtt aattcaagtt tgctttaaac atattctcat atcatgtatt gaaactcacc 420
gttttcaaaa naaaaa 436

<210> 50267
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E9

<400> 50267

atacgtaccc agattggccc aatgatcttg aagagaagcc tgctgaggtt tcatgggtgga 60
tggatgctgt ggagtctgct aaagcttatg ggaatgacaa tttcaagaaa caggactaca 120
aggcagctct cagaaagtac aggaaagctc tgcgctactt ggatctttgc tgggagaaaag 180
aagagataga tgaagataag agcacagcac tgcggaagac caagtcaata atactcacta 240
atagctccgc atgcaaatta aagttaggag attcaagtgg ggctttatta gacgcagatt 300
ttgcactgcg tgaaagggag ggaaatgcta aagctttttt ccgacaagga caggcacaca 360
ttgcacttaa tgacattgat gcagccgtgg agagctttaa acaggcattg gagtggagcc 420
aatgatgct g 431

<210> 50268
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F10

<400> 50268

actaggcgtt gggttgtgcc ttttacttgt accagctccg gcactcaaca caggggaggc 60
ttatgtactg agagagagag agaaagatgt cagttgtagc tcatcatcta cacaaccagt 120
ctggtattct ggcgtgggta ccgaacgatg tgtaaagat cttctgactg tctgacgaga 180

actactgcct gtgcgttcga gacagtgcct tagcgctgga cgcagtcaa

229

<210> 50269

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F11

<400> 50269

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gcctctgctt acgcaatgcg ggcctccgtc gaggaggccg gcacgctcct ggcgcgaggagc 120

gactcagccg gccgcggtcg tcgctccccg ccgacggtgc agaccgcgtc cccgaggccc 180

ggtagcctca ggcgccagtc gtcgctgata cgcgaggaca tctggcacgc cgactgcgag 240

acttaccttg tategcgctt caccttcacc ctactgcagt acctcggggtt aggtcaccga 300

tggatgtcac aactgctttc actcacaatc tatgcaattg gacttatgcc aggatttata 360

caaattggat attactattg attttcgagc caagtgcgta gaagtgtagt ctatggagac 420

caac 424

<210> 50270

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F12

<400> 50270

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actgtccttt ggatgtctgc tactcgtaca ggtatagatc tcgcattatg gtgcactatg 120

actctttggg acatacatat acatatgtgc aaactataca taccgagaat cctactccca 180

gttcaatgac tcgccagtaa tttcagcatc gatatacatc tggtagcact cattctaaat 240

ttaactcgtc ttatgcgtca ccttaacttt actgctatag ctat 284

<210> 50271

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F2

<400> 50271

aaaaaaaaa aaaaaaaaaa aaaaaaatta aataaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60

aatggaaaaa tataatatat tgtaaaataa aaaataataa aatataaaaa aaatta 116

<210> 50272

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-F3

<400> 50272

cccacgcgtc cggattgagg agctgcctgc caatgttgct gaccttctgt gatcaatgtc 60

aagaaaaaac aaaacaaaaa aggggtggtga ggaacctggt aaggcttggt tttgtcgaaa 120

taccgtggga gagggggtga taaggacggt ggggtttcta tgttgaagtc gtggcatgg 180

acaatttggtg attttttctc ctttatgcc a tgttttgaa tttttgtagc tgcctaggcc 240

ttgtggtaat gtgctgctgt gggggttcat tagtatgaag aggaagacgc tgctggcgct 300

gagtctttct ctttattagt attttgttta aaactatgta tgaccgaatg gtggtattta 360

attgtgtcat ncttgactct tattctgctg caaccagatg tatcgtgcc a tg 412

<210> 50273

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F4

<400> 50273

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aggttttccc tcttatgct ccttgctctt tctacatgtg ttgctaacgc gacaattttc 120

cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180

gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240

agcaacatac ctttatcgcc cttgttggtt caacaatcgc cagccctatc tttggtgcag 300

tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F9

<400> 50278

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aagggtgctga agaagtgtgt caagctgccg gttctagctc atcatctagt aaaagagtct 120
ggcattctgt tgtggttatt gtctgttatt tcagtccgta gcgaagtgtc tgacggttct 180
gaaagctcct gttctagagt aactgagtta gcgttgagg tagtcaatgg ttcgatata 240
tcaagattga tcacagattg gctccaagaa accgcccttg agcagctctc aacaatatca 300
tcataccttt ctgttctaata taacaatgcc aaattattga aaggaaatgt tcatttggtg 360
acttcagctc taagtgtgat tacatcaaca atgaggttgt ctatgacaag gaagatatata 420
caaccacatt ttac 434

<210> 50279
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E3

<400> 50279

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aactacgaag atgtcacaag agatggccag gacaatcttc acgatgacag aaatggagga 120
agtgttcttg ctgctgtatc aagggtgcc tctccttcag ttcttgcaac aactgttct 180
gcagtacagg tgaatggggg tcatgacagc actgttgaag atgtacctgc accaccaact 240
gctcatgccg agcctaattg atttgatgag ttgatccac gtggatctgt accagattct 300
tccccttctg taaaccctgc atcagtagcg aatagcttgg agatggattt gggttgatca 360
gatcctaata gttcgttggc tttggtgtct gtgccttcac caacgactac 410

<210> 50280
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C8

<400> 50280

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tcagccttct gccactggaa tgatcagcag agaacttatt gctgatccag acccaccat 120
acttccatca tcttcaagcc tgaaatcggt gacccagac tctattgaag gaaaatctac 180
acttcaccac tatattaagg tcttccatga gtactatgtg gagtacggac acaagggtgtt 240
cattgaactc aaggagcatg cggactatct gaagacagaa atggaagata aacagaaaacg 300
cttggaaagca gtgaagaaat cacttatatc cgtagaagcc aaagatggag acatcaacaa 360
gaggatagat cgggccttca aggtgtatga actgttggag aagcgaatag atagcttcaa 420
gatgct 426

<210> 50281

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C9

<400> 50281

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tgccacaagg gctggggaac ctccgtcatc gtcggcgtcg ccgcctctgg ccaggagatc 120
gccacacgac cattccagct cgtgactggg cgtgtctgga agggaaccgc tttcgggtggc 180
ttcaagagcc ggacccaggt cccatggctt gttgacaagt acatgaaaaa ggaaattaag 240
gtggacgagt acattacgca caaatgaac ctggctgaca tcaacgacgc cttccacctg 300
ctgcacgaag gtggctgtct gcgttgtgtg ctggcaatgc agatttgaaa ttcctaagct 360
aagcagtttt tgttttggaa ctagaactcc tttttgcctc gttaggcctg gacccgctgt 420
ataatgctat g 431

<210> 50282

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D1

<400> 50282

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caagccaatt ccgggggact ggaatggcgc tggatgcacac accaactaca gcaccaagtc 120

gatgaggagc gacggcgggg acgaggtgat caagaaggcg atcggcaagc tgggcctccg 180

gcaccgggag cacatcgccg cgtacgggga cggcaacgag cgccgtctca ccggccgcca 240

cgagaccgcc gacatcaaca ccttcgtctg gggcgtcgcg aaccgcggng cgtcngtgcg 300

ggtggggccg cgacaccgag 320

<210> 50283

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D10

<400> 50283

gttgatttgg actgggagaa cctgggtttt gggattgtgc aaactgatta tatgtatgtt 60

gctaagtgcg ggacagacgg gaatttttct gagggtgaaa tggatgcctt tggacctata 120

gcgctgagtc catcttctgg agtcctaaat tatggacagg gattgtttga gggcctaaag 180

gcgtataaga aaactgatgg atccatccta ttatttcgcc cagaggaaaa tgctgagagg 240

atgcggacag gtgctgagag gatgtgcatg cctgcaccct ctgtcgagca gtttattgat 300

gcagtaaaac aaaccgttct tgcaaataag agatggattc ctcctactgg taaaggttct 360

ctgtatatta ggcccttact tatgggaagt ggggctgntc ttggtctt 408

<210> 50284

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D2

<400> 50284

cgatcctatg gagaatggtg atggtcaaga tggatgccgag gagggcaaca catttccgga 60

tgaacaatat ggttatccaa aagctgaatc tgagaggtgg gtttcctgca ttaggatctt 120

<223> Clone ID: LIB3079-034-Q1-K1-D7

<400> 50289

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 ggctccctaa acccaccgcg ctgaccgtcc cccatgcctc aaccttctct cggcttccgt 120
 caacatctac ctactccttc gtcttctctg tttcatcacc tatcattcca cttaactttc 180
 acaattctca tcattctcgt acttctccac cccttccttt atactca 227

<210> 50290

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-D8

<400> 50290

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 cctgagtcgg ttgggatgga gcagctccgt cctagagatt ttagggaggc tgatcgttca 120
 acatttaaac acttgttaga gtcactctat cctacatgga accaattcaa acaataacaa 180
 ttgagagcgg agcagctccg tcccaccatg cttcagtacc aaacactatc taagtaaadc 240
 ctgatgtacc acatcttcat tgcttgaaca gagttgagat gagttccata ggagtttggt 300
 gtgcaattga tccctcagca tgctaataag caatgtgctt tcttaggagt ttgagtaaag 360
 cagtcaattt tattc 375

<210> 50291

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E10

<400> 50291

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 gccgagtggc aactcagccc ccctgctgga ttcaagcaca aggactccga taacctacaa 180
 aggtgggtaa ttgaggtcac tggagcggcg gtcacccttt acgccggcga gacctaccat 240

ttgcatgttg actgccctga gcattatcct atggaggcac ctcatgtcat tactctcaat 300
ccagcgccaa tgcattccaca catctacagc aacgggcaca tctgcttaga cattgtgcat 360
gactcgtggt ctacagcgat gaccgcgagc tctgcctgta tcagtatcct gtctatgttc 420
gctaattcgc cagcaaaa 438

<210> 50292
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E11

<400> 50292

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gggttcaatc cttacaaaaa tgctgtaaac gattatctat cgctatctag gtg 113

<210> 50293
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C7

<400> 50293

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ggagcctcct gcaactggaa tgatcagcaa agaacttatt gctgggtccag acccacccat 120
acttccatca tcttcaagcc tgaaatcggt gacccagac tctattgaag gaaaatctac 180
acttcaccac tatattaagg tcttccatga gtactatgtg gactacggac acaaggtgtt 240
cattgaactc aaggagcatg cggactatct gaagacagaa atggaagata aacagaaacg 300
cttgaagca gtgaagaaat cacttatatc cgtagaagcc aaagatggag acatcaacaa 360
gaggatagat cgggccttca ggtgtatgaa ctgttgagaa agcgaataga tagcttcaag 420
atgc 424

<210> 50294
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E12

<400> 50294

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 ggtggtggta gcggtggcgg tggaggcggg ggttacggag gaccaggcta tgggtccgga 180
 tcagggtatg gtgagggcgg tggcagcggg ggtgctgctg gagggtatgg acatggtggt 240
 ggcggcggcg gcggtggtgg tgagggtgcg ggagctggtg gctctgggta tgggtccggg 300
 caaggatctg gctacggagc tggcagcaat gctgccggtg gatatgggag tggcgg 356

<210> 50295

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E2

<400> 50295

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 acagaaatac tgtattgata tggacggcac gccggaggca gtgacaccaa tggattaata 120
 cttgcaatat tttcctg 137

<210> 50296

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B12

<400> 50296

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 tgctttgcac acgcctagaa tgccatttat ggacctacat gtcattgata atgtatactc 120
 gtaacccaaa ccaagaatag ttgaaacggc aggcgctgta aactatctaa actcactaac 180
 tcttgcatgc aacctgatag ctatggtata tggtcagctc acattcaaac actggccgta 240
 tcacataaac gtcaagactg gtaaaacctt aaattgaccc cactaaagcg tactggaata 300
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369

<400>	50297
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<400> 50298

<210>	50299
<211>	440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-B7

 <400> 50299

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 acagacagag tgtcagtatt atctgaagac cggaacatgc aagtttggtc ctacatgcaa 120
 atttcaccat cccagggaaa aggccggaat tgcagggagg gtgcagctaa acacattagg 180
 atatccactt ctcccggttt gtattatctt gccagttaca tgcctcttc tacatatgtc 240
 tgtttgttt gctgaaaagg agtctacttt actttttag aatgaaaagg agtgtgcgta 300
 ttatttaaaa acaggacaat gtaaatatgc aaatacttgt aaattccacc acccagaact 360
 tttcaatgtg gtgccttcgt cacgtggttc acctatttat acttctgtac attcctctgc 420
 aagcgctggt ccacagtcac 440

<210> 50300
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-B9

 <400> 50300

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 cccaccgcg tcaagttcct cggcagcgtc tgctcgcct tctccatggc cgtcttcgtc 180
 gcgccgctca gcatcatcgt caaggtggc aagaccaaga gcgtcgagtt cctgcccac 240
 agcctctcct tctgcctcac gctcagcgcc gtcgcctggt tctgctacgg cctcttcacc 300
 aaggaccct ttgtcatgta cccaacgtc ggcggttct tcttcagctg cgtccagatg 360
 ggctctact tctggtaccg caagccccgc ccggcgcca agaacaacgc cgtgctgccg 420
 acgacca 427

<210> 50301
 <211> 372
 <212> DNA
 <213> Zea mays

tgtctcttga cattccgata acatcacgat ctccgtatctt ttcgtctgaa tcccagagac 120
 caataatcga tcattcttagc tgggtactag ctgcttctat aatgtaacaa gcgctacctt 180
 attcatgagc catacccact gattactggg tgtatctatg acataaatgt agctacacat 240
 ccgcaacatg tacattacac acaatatgaa cttatctgac gtaagatact ccttccattt 300
 gctatgaaac acatgttgcc cctgcaggat tcttgctgta cacac 345

<210> 50304
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C2

<400> 50304

ttcagttcta gcatctgaat ctggtaccgc acatggaaaag ggcaacacta agaaggtgtc 60
 cggaagagac ttccatgctg tgtctatgga agccaacaag gggactagtt caacgccatt 120
 ccagaaatct cgtgtgtcaa atgattgcca tgtgaaactt aaaattaagt cttttaaaagc 180
 gcctgaactt cttgatgaaa ctctagaaaag tgcaactgtt gactcactaa tgaaaactgt 240
 tatcgaggca ctgactgcta ttatcagagg tgggtctccat gttgggtgatc ttcaccatgg 300
 aaagcaagtt atagatgata ataaaacgtc gattcaggct ggtatcgatc aggaagatat 360
 gctggac 367

<210> 50305
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-034-Q1-K1-C3

<400> 50305

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 acctttggtg catttattgg cacataacat cagggcacia caactacaac aacttgtgct 120
 agcaaactt gctgcctact ctgagcaaca gcagtttctt acattcaacc aactagctgc 180
 attgaactct gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc 240

ctacccccag caattttcttc cattcaacca actggcagca ttgaactctc ctgcttattt 300
acagcagcaa caactactac cattcagcca gctagctggg gtgagccctg ctaccttctt 360
gatacaacca catttggtgc cgttctacca gcacgctgcg cctaacgctg gcacnctctt 420
acaact 426

<210> 50306
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B1

<400> 50306

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agcgcgcgcc gcaacgccac catgaagttc aacatcgca acccttccac cgggtgccaa 120
aagaagctgg aaatcgatga cgaccagaag ctgctgcct tttatgaccg aaggatatcc 180
caggaggtca gtggtgatgc tctgggtgag gagttcaagg gttatgtctt caagatcatg 240
ggtggatgtg acaagcaagg cttcccaatg aagcaaggag ttttgacttc tggctgtgtt 300
cgtcttctgc tccatagggg gactccctgc ttccgtggtt atggcaagcg taatggtg 358

<210> 50307
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-033-Q1-K1-G9

<400> 50307

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gccggccagc cacaagagct ccacctccac ccgggctcgc cgccggcgga ggaccacatc 120
tgggagatgc aaagtggagc acgctgcgcc actcaacatc gagatccgct tcttgggtcg 180
acccttcgac agcgcccccc tggcagaccc gggcaacaac attgtgcttc gtggtgctgc 240
agtggccgct ggagaccgt cgacggggag cccccaaga ccctctatca gctccaccga 300
tgccatgaga gcgcaagaag gctgaccccc tatggctgcg aatagggccca tggttgctgc 360
tggcactcga gcaagccgac gccgactatg accatgtnc catgagtcaa cagactggtg 420

acta

424

<210> 50308
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-033-Q1-K1-H10
 <400> 50308

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 ctttaaggatg ttggccccc aa gtaacttccc tgccttggaa tactgtatct caaaacctaa 180
 atcgaaaaaa gaagtgtatc aaggattgct acagagacat ccatctggct tgagctggct 240
 tttgctatgg caaacacaag tgcaaggatc gctgggtgtt gcaccgtgtc tgcattatgt 300
 ggttacattc tggaccctgt attttctatg cttttatgcc cctactgttt agtattaatt 360
 atcaataaat ttgttttggg acggttg 387

<210> 50309
 <211> 102
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-033-Q1-K1-H11
 <400> 50309

aacaaaacag attaaaaaaaa aaaaaaata aaaataaaaa aaaatataac taaaaataag 60
 gaagcgttaa cttaaaaaat gggcagccgc tgtttgtgct cc 102

<210> 50310
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-033-Q1-K1-H4
 <400> 50310

agcaccggca ctccgccaca gttcgaatat tcctagcttg agattgcaag aggtctggaa 60
 gaggagggta ggggagccga ggcgtcagct ctaattgtct ccatctattg ctaacagcag 120

ctcagacctc atgcaagggga ggtacaatgc catgagcaaa tgagatgttg aaggcagatt 180
 caaagaatga tgggtggctt tg 202

<210> 50311
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H7

<400> 50311

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 gagcccttta tttagggcat tgatttaaga caggcttgga gatgctctta gtccattcac 180
 aatggaagtt taattagata ttttataaca ttaattagta taccacatag gatttgttgg 240
 aggtgttttt ttagaagttg agccctatat ttagggcatt gatttaagac aagcttgaag 300
 atgctcttag tccattcaca atggaagttt aattagatat tttatgac 348

<210> 50312
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H9

<400> 50312

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 tgtgcggccg cccctccctcc gtcacgtctg actccccctg cgtccgttcc tttggatctg 120
 aataagatgg tggatgatctg agtggtggtc ttagtttata atgtatcgct cgcagtttaa 180
 tttagcgggt taggtgtgga tctgtgaacc ccatggcgcc tctgcttgat tcgtgtttca 240
 cctgttatgt tctgagattc atgataatgc tatgagaact gaaattccaa aaaagctaac 300
 cttttgaaga tgacctcaag gaaagatg 328

<210> 50313
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A1

<400> 50313

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tatagcctca caatttgaaa gtacatatat ttgtagactg ttacatccct atgaagacag 120
cagaggattt gatgaaacct gtgctggtgg ttggcaatgt gaggctgaca aagggaagct 180
gttgcaggaa ctcacgagta ctgctggcg 209

<210> 50314

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A10

<400> 50314

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gtgctaactt ctaacttttag tatacatgaa gactactgaa atgaccatca tctagcaagc 120
agacgcatat gaaagggaga agatctacgt ctaacgcaag caaatccaca tgtacgagca 180
tttctgcata aatctggcgc aataattgga ctacacattc ttcaagagca atctgccttg 240
tcgcggttag agtactagga tatccacta gaatcggatg acaaccccgga cattgaaacc 300
taccattccc agcgaacatc gaaagcgact tatgcaatgc catgctgctg ccaaattgct 360
ccctgttggt gcttccaacc ggattgagag agaaactgtt gacactgagc atggcaagag 420
ctcgat 426

<210> 50315

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A11

<400> 50315

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gtgctacaaa tgggctatca tagtgaggct gctgcttggg gagattcctg agaggactga 120
tttcatgcag aaaggaatga agaaagcgct gataccttat ttgagctca caaatgctga 180

caggggttggg gaccttgaac tgttcagggc tgttgcagac aaatttataa gcacattcag 240
 cgagacagg actcgtaatt tgattgtgag gctgcgccat aatgtcattc gaactggact 300
 gcgcaacatc agcatatctt actcaaggat ctcccttgct gacattgcta agaagctaag 360
 actagactct tagaacccta ttgctgatgc agagagcatt gtatcc 406

<210> 50316
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A2

<400> 50316

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 cggcgccggc gcgagccacc tcgatctggg cttgggcttc ctctcctccg gggaccgccg 120
 gcgggagtgc cgcggcacgg tggccgagtg cctggacgag tcagagggcc tggacctggg 180
 ggcgggggccc gcgtccgtgg agtcccaccg ccgcgcgctc tacggcggcg gcggcgggta 240
 catcagctac ggcgcgctgc ggcgggacaa cgtgccttgg ctccggcgcg gggccagcta 300
 ctacaactgg ccgccccggg g 321

<210> 50317
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-A4

<400> 50317

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 tggctctcac cacctgtcc atcacttggc atcgccgact tggccatcca cgacccgacg 180
 tcatgggcaa actcaccagt agcttagatt tttaatgtag taggggacat tttgaggatc 240
 tctgtcatatc ttgtcagcta ggccgacata ctgctctccc attcactact tctagagctg 300
 agcaagtttt tgatttggtt cattgtgatc tctggacctc tcctgtactt agtttgtctg 360

aatataaata ctatctgatg attctggatg cnttttccat tttctataga cctttcctct 420
tctgttgaag tttgacacg 439

<210> 50318
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A5

<400> 50318

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tgttgaata tctgaagagt ctagagcctc agaatttgaa ggtacatata cttgtagact 120
gttacatccc tatgaagaca gcagaggatt tgatgaaacc tgtgctggtg gttggcaatg 180
tgaggctgac aaaggggaagc tgttgcagga actcacgagt actgctggcg aggatgtcgt 240
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ggtgaggggtg aggggaatggt atgcatggca gtgcttttgt ttgatttgaa cttgaacttg 360
tgtgtgtgtg tgtgtgcaga cagcagtctc ggaaacaagt gc 402

<210> 50319
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-A6

<400> 50319

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aatttagaaa tgtacatcaa agtctagtaa tacattgtta aagataaatc aataactcaat 120
aagttcctca tgctttggat ttggggataa catacctgtt ttattttacat gctaataattt 180
ggaccaacaa aaaatacctt aggaacagcc atttgagaaa aaaacaaagc ctttttagtcc 240
taagcaagtt agcatagctt agagttgcaa cttctacatg agcacaataa acaganaaga 300
aagagaaaag ganaatanat atatatggca ccaaagcta ttaccatggt ataataataca 360
attaatgacc gaaattataa acattnttac aatcttagca aacctntcac gtgtagtctg 420
aatcga 426

<210> 50320
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A7

<400> 50320

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 aatttagaaa tgtacatcaa agtctagtaa tacattggta aagataaatc aatactcaat 120
 aagttactca tgctatggat ttgggagata acatacctgc tttatctaca tgctaattatt 180
 tggaccaaca aaaaatacct tatgaacagc catctgagaa aaactcatag ccttttagtc 240
 ctaagcaagt tagcatagct tatagttgca acttctacat gagcacacta aacagaaaag 300
 aaagagaaaa ggaaaatata tatatatggc accaaaagct attaccatgt tataatataa 360
 atttaatgac cgaaattata aacattctta caatcttagc agacctctca acgtgtagtc 420
 tgaatcgaca gaaca 435

<210> 50321
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-A8

<400> 50321

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 ctgagaagaa aggctcagac cttgagcaac aactcagtga gattgagagc aaattagttg 180
 catcaagtga agaaatagag ttgctgaaag agcgtattca acaagaagct gctgtatcag 240
 cagaaagagg aatgcagctt gaagaaacaa tgaccagtgc agagggatac aaagaaaaaa 300
 ttaacgagct acaatcctcc ctagattcct cgatgtctaa aaaccagcta cttgaacaag 360
 aagtcaagga gctgactgat aaatgttcag agcatcaaga acaagcacat tcagttcagc 420
 anagaagtct ggagctgga 439

<210> 50322
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-A9

 <400> 50322

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 tttcaacccc ggtgacactg gctttaaggc tttcaaaacc aagtatgcca ccattggtgt 180
 tggaatctgc tgggatcagt ggtttccaga gtgtgcaaga gcaatggcac ttctgggggc 240
 tgaaatactg ttttatccca ctgcaattgg atccgaaccc caggattgta acctggattc 300
 ccgtgaacat tggaagcggg ttatgcaagg ccatgctggt gccaaactgg tccctcttgt 360
 tgcttccaac cggattggca gagaaactgt tgacactgag catggcaaga gctcgataac 420
 cttctatggg a 431

<210> 50323
 <211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-F1

 <400> 50323

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 aattgggtcg gtaccttttt taccttggtg gctccaacaa tcattagccc tatttcaaca 120
 ggtacctttg gtgcatttat tggcacaaaa catcagggga caacaacttc aacaacttgt 180
 gctagcaaac cttgctgcct ac 202

<210> 50324
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-F10

 <400> 50324

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194

<210> 50330
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F6

<400> 50330

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cagcggtagc gcgccgtgct ggtagacagg gtgggcggtc ccggtgaggg ttacaaagag 120
ctcttggttg atctgacagg tgacaactga cattactccg gttataacat ctacttgcac 180
agcgaacaca aatgtagaag aacctagaag ttatttta 217

<210> 50331
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G10

<400> 50331

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agagctaccg cgtacatgtg atgcctacct tgtgctccat caggaacgga cggacgctcg 120
agagctattg ataccgtcga caaggacgag cttcaggacg ccgataggaa gtacgccgcc 180
actggcacta cgacggctcc tggctcagcg tgcgactaac tcaggagatg tgatgtgtag 240
caaatagcgc gcgcacacca gtcgtgaata aataaataga tccattaata aactaatcag 300
atgaagggca acgtacgacg acctattagt ggtacgcgcg gtagtagcta gcagagtatg 360
ctccgacact gtgacgatct 380

<210> 50332
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G2

<400> 50332

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gcactccaac gtgtggaact cgcaccccaa gaactacggg cccggatccc gcgtctgccg 120
ggtctgtgcg aacctcatg gactgatcag gaagtacggg ctgatgtgct gcaggcagtg 180
cttccgcagc aacgccaagg acattggctt catcaagtac cgctgaagtc agctgggcgg 240
gctatctgaa tgccatctct tggacagtgt agtagaggcg atgccacaat tttaattact 300
gtcatttaga tgttcccttc agaactctgc tatttaagtc cgccatgttt gtgatggaga 360
actgaaagct tgtttggtat actgattatg ag 392

<210> 50333
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G3

<400> 50333

gttctagatc gccgtccgat catgtgattc atcttttggc acagcggcta atatgctggt 60
aattgtctac aaccatgacg tgcgttctca aatgctcata ccgcttagcc gtaaaaattg 120
gtcgcgatat tgaaggttct aagctacatt gtaaaaggca aggaactctg catcttgtag 180
acatactcta gcatagatgc agaacgtaga cctaattattg atgatgatcg atacgacttg 240
cactgctact atctccaatg tttggccaga gactactctc gatgtctacg agaaagatga 300
gcatgacttt ggattctatt gaagcttatt gaagccgttg gtgcagctta tcatgatgaa 360
ct 362

<210> 50334
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G4

<400> 50334

gaagaagtag aggtggaaga ggatgagtaa cggatgaagg aagttgtgat gaaacgtgcg 60
gttgtggaat gtatatgcag ggcagcaggg gagctgactg atgaatgttt gtgttgcttt 120
atgctgtcta agaaacggta cttgtctcga cgcttagagc cagtttagcat agcacatcgt 180

gtgcagtatc cggatgaaga attgggaaaa aacaatattt gtaagcgtca gctagacaca 240
 ggcgaaatcgt aataattggt attttgccac ttgaaatggt gcatacttct gtaattaccg 300
 tttgtgt 307

<210> 50335
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G5

<400> 50335

cattcgccgc cgacgcctgc tctctgctgc cgtcgccatg gggagaaggc ctgcgagagg 60
 ctatcgccag atcaagaaca agccataccc caagtccagg tactgccgtg gtgtccctga 120
 cccaagatc aggatctacg atgttggcat gaagagaaag ggtgttgatg agttccccta 180
 ctgtgtgcac ctt 193

<210> 50336
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G6

<400> 50336

acggcgata ccacgagcgc accaaccacc accaccatcc tcatccttcg cgaggagggc 60
 ccttcgtcgg ggaagagAAC cgcgcaggag acctaccctt cctcaatcct cgcaccctcc 120
 atggcctcct cctccctggc cctccctcca atctctctcc tcctcgcgt gctgctctc 180
 tccgccccct cgcgcgtcgc ctgcgcctcg ctttccttcc tcaccgcctc ctccaacggc 240
 tccgcctcca cctccgccga cccggagctg gaggacctgg ccccgagacc caccttctc 300
 gaggaggtea tcgacgccgt ctcgagaaag tacgactggg atccggacgc cgaggtcagg 360
 gtc 363

<210> 50337
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C6

<400> 50337

cagactatac ttagacctca aggagaatga cacaataaca gtgcgattgg gtaacaggta 60
caatacatat agcttaggtg gcaagaaaaa gctggtccta tccactgcaa cctgccttgt 120
ggggaagaac gattttcttg gctttgcata ctttatagtt ggtgggctat gcattttcct 180
ggcattggca ttcaccttgc tgtacttcgt aaaaccaagg aaactgggag accacaacta 240
cttatcctgg aacagactct aggatgattc ggaacaccaa gtgtccgtac tactcgaaat 300
gtagcttgta tgaaatgaaa tgctctgaac cagaaatgtc gatgggcata agcaagcat 359

<210> 50338

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C9

<400> 50338

tccgatctca tttccttttg ctgcaggata ggcctaataa gaaaacaaat aattccaatt 60
catatatgaa catttttgcc tccttatggc ttggaaatgt ggaattggaa ttcctttcct 120
ttggcttcag gataggccta ataagaaaac aaataattcc aattcatata tgaacatttt 180
tgctcctta tttcttgaaa atgtggaatt ggaattcccc gaggaattcc gatctcattt 240
cctttggctt caggataggc ctaataagaa aacaaataat tccaattcat atatgaacat 300
ttttgcctcc ttatttcttg aaaatgtgga attggaattc cccgaggaat tccgatctca 360
tttccttttg cttcaggata ggcctaataa gaaaacaaat aattccaatt catatatgaa 420
cattttt 427

<210> 50339

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D1

<400> 50339

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tgaggggaagc ggcactccat ccactgactg accgctcatg gcgaagggtcc acctctacgt 120
cgccgcggcc tgcgcgctcg tectcgctcg cgccaccccg gccctcgccg gtgacccccca 180
catgctgcag gacgtctgac cggtgacta cccctccccg gtgaagctga accggttcgc 240
gtgcaaagct aacttttcgg ccgacaactt cttgttgac gggctgaaga accctggcca 300
cagcaacgac ccgggggggt 320

<210> 50340
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D10

<400> 50340

tgtggtctat tctgctgtcc gcgctggctc ctctgcaact gtgctctcgc caccagactc 60
aggcgtggga ccgacaagcc attgcttccc ttcagcaagg cagacgaaca agaagataag 120
aaggatgtgc cgaggccggt gacatactcc tactctttct ttcacctcat cttctccctg 180
gccagcatgt actcggaat gctcttgact ggctgggtcaa cttcggttgg tgagagcgga 240
aagcttgtgg atgttgggtg gccatctgtc tgggtcagga ttgcaacca gtgggcgacg 300
gcaggctctgt tcatatgggtc gcttgttgca cccgtactct ttcccgacag ggaattctaa 360
gttcaaccac ggtaagcctg gagcatcaaa cgtgtctact gtggtagcta aaatattcta 420

<210> 50341
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D11

<400> 50341

catcccttaa tacctcaacg ttcattaacc ccgctccag ttcatactcg taccatccac 60
aaggctctatc gaccatacaa cccctgaaca tgtctaactc ctccatttc tcaaacatct 120
ttcaacacca gatcaacaca ttctacatct actacaacgt caaacttcca ttttacagca 180
ccttcaagcc ttatcccacc aatctcaggt ccaccattac acactatata gctcttatcc 240
tatgttctac cagcttcata ca 262

<210> 50342
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D2

<400> 50342

aaataatagg tcatatacac attaattggt cactgaaaca atgtggtaca tgtaatagga 60
ggaggtgcat tgaataaaga catagtagta tcacgttttt gg 102

<210> 50343
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-033-Q1-K1-D3

<400> 50343

gaagaagcga aagtatgagc ttggtcgtca gccagccaac accaagttgt caagcaatga 60
agacaggtag gaggggccgt gttcgtggag gtaatgtgaa atggagggct cttcgccttg 120
atactggtaa ctactcatgg ggaagtgaag ctgttaccgc caagaccgcg atcctcgacg 180
tggtctacaa tgcgtcaaac aatgagcttg tgaggacaca aacccttggtg aagagtgcca 240
ttgtgcaagt tgatgctgcc ccattcaagc agtgggtacct cactcactat ggagttgaca 300
ttggtaggaa gaagaaaacc cctgctgcaa agaaagataa tgctgangga ca 352

<210> 50344
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D5

<400> 50344

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cgccggagcg gctcgtcaga cgagctacta tgacgcggtg gttggctgca gccgccggcg 120
ccaccgagcg ctggcggcaa ggcgcaggaa gttgacgtcg gcggcgggcg cggatgtggt 180

ggcgccggca ggaggagcgc cgcgacggtg gcgcccgtgc agcactcgca ctccgcgggg 240
 ttccgcgacg acacgcatcc cgtggcgggc aggctgcgca ccgagtgctc ccgcccgatg 300
 aaggcggcgc agacggtgca cg 322

<210> 50345
 <211> 306
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-D6

<400> 50345

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 gaagcgcgcg agcattcaag gactttggct cctttccatg gttcttctag cgtcgtcctc 120
 tcttgtctgt gcaagcatgg cggtagatgg gcaaaccaaa gaggacatca acgcaacgag 180
 tgtgacgagc atgaacatga cgaggtcacg gtcgtcgcgc tacaacatga ctggcggcag 240
 cggagaactt aacagagggtc cgtgcgtaat gagatctgga ttctactggt tccagaacat 300
 tggcta 306

<210> 50346
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D8

<400> 50346

ttcccgaatt gacgcatgca tccacgcgtg cgaacacgcg tccggaagat gctcatgcat 60
 ctagttccgt ggctacgcag tctggggcaa gtcgtgaaa gtcaaggttt cgtacaagct 120
 ctcggacgcc gacaagaagg cattcctcaa gaccaaggct aagccggcaa atgccgccgc 180
 tgccaagacc accgccccca agccggccaa ggccgccgcc gacaagtcaa agaatgcagc 240
 ggctgccaaag ccaaagaagg ccgctgctgc tgggaccaag cgcaaagtgc ccgagaagaa 300
 tgtcgtggcg aagcctaaga agtccccgcg cgtcaaggcc aatgccaaag cgaagaccgt 360
 gaagtcccc 369

<210> 50347
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-D9

 <400> 50347

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 caggggtgtcc cgtctcaccg cgtgggagat gaagaagccg gtcattgaac gggcctgaag 120
 atcttgaata aatatatcac ccatgcatga catagtggcg cctgaggaat ctttcctttt 180
 tttaaaaaac atatttttaga tgcgttttat taagagttga ttgtccatac taaagggcgc 240
 cccgttatat gttacaatgg taccagctgc atttctagta ac 282

<210> 50348
 <211> 163
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E1

 <400> 50348

 aaaagaaaaa aaaaattcaa aaaaaatata aaaaaataaa aaaaaaaaaa aaaaaaaaga 60
 gataaaagaa aaatattaaa aagaaaaaat ccaaaacaat aaaaaaaaaa aaaaaaaaaa 120
 aaacacccaa caaaacaacg gaactactaa ataaaaaact aaa 163

<210> 50349
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E11

 <400> 50349

 gtgacacacg gttctcctgg acattcttac gtgccaaacta ttgctgacga agcaagtggc 60
 ttaggaataa tctgctgatg tctgcaatac aggaccttcc agcagcgcac ttcaatcaca 120
 ctaagaaccg gaatacgatc tgacatcatg cgctctaagc tcacgcgggg agtctgtaaa 180
 atccattgtc tatataccgt gagcgtacgg attggactta tacactcagt tctgagaagt 240
 agaaaggctg accaatttat catat 265

<210>	50350
<211>	425
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C5

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cttcaattcc	tcattccgtc	cagcgatcgg	ccttcacgcc	agtctcggtc	tcttgccaag	120
gcttcgctcg	cggttggttag	agaggagagg	aggaagatga	gggagtgcat	ctccgtccac	180
atcgggcagg	ccggcatcca	agtcggcaac	gcgtgctggg	aactttactg	cctcgagcac	240
ggtatccagc	ctgatggcca	agtgcctgga	gataataccg	cgggacatca	cgatgatgcc	300
ttcagcacct	tcttcagtca	gactgggtgct	gggaagcacg	ttcctcgtgc	aatcttcggt	360
gatctagaac	ccactgtgat	cgatgaggtg	cgcactggca	cgtaccggca	gctctttcac	420
cctga						425

<223> Clone ID: LIB3079-033-Q1-K1-E2

agaacgtcaa	ccagtaccgg	ttcatggcca	tgacctctctg	eggcaaccag	ccgctctggc	60
gcgaggggcaa	gggatgcggc	tctgctaca	agatcaggtg	ctccaagcac	gccgcctgct	120
ccggccgcac	cgagaccgtc	gtcatcaccg	acatgaacta	caccccgggc	gtcgcgccct	180
accacttcga	cctcagcggc	accgccttcg	gcaggctggc	caagcccggc	cgcaacgacg	240
acctgcgccg	cgccggcacc	atcgacatcc	agttcgccag	ggtaccctgc	gagttcccag	300
gcctcaaggc	cggtctccac	gtcgaggaag	gctccacca	ggtctacttc	gccgtgctgg	360
tcgagtacga	ga					372

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E3

 <400> 50352

 aaaaacaaaa aaaataacat aactgggttaa aaattaatct acaacaaaaa aaaaaaacga 60
 gaaagagaaa atttaaaacc gagaaaaatc cacaccacaca atcacccaaa tatcacaaac 120
 aataactttc caataatata acccaaattc aatgacaccc aactacaatt cacaacacca 180
 tagaatgaca aaaccc 196

<210> 50353
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-E4

 <400> 50353

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 gcgcgcgcgc tagccttacc ctgtgtgcac cctgttccta accctgcgtg tggccgcgcgc 120
 cgactggctt gcgtgcgccc gcgcctccgc ctaaccctgc tagcttgccgc gcccaacgcc 180
 agatgccctg agcccaccgc cggctgtctg tgcacgcaag tgaaccatc cggctacctg 240
 ggcacgccat ccgacctccc tgcaaacctc tgtatctgcc gatattcctc aagaacacag 300
 tgcanacagt aagttctgga gacagca 327

<210> 50354
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-B1

 <400> 50354

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 gcgacgacgc tggcctggac ccaatctcct cgatatttgg gccaaagctat gctccggagc 120
 atcatcccg tccacctggc agtttcgccg cgtgcacgag gctctcgct tccaaccac 180

agacaaggta cttctcggag agcacagggg tcgtctcgga ctactcttcc agcggcattg 240
 tacatagagg aagggatcca ggtagggcat acacctgttc agcgggaaccg ctcgcttcgg 300
 ctgcggcggc gcaccagcac cagcgggtgag gcgtattaaa tnttggtgc atgtcattcc 360
 taggctagct cgattcaatg tancgagaga gagaggaaca aat 403

<210> 50355
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B10

<400> 50355

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 ctggaatatc atggaagaat tagatgattg gcctgtgctc gcaaagaaag aatacgatga 120
 ctggcttagt tcaaaggctt catcctctta taaccctgtt gatgatatat taaccactga 180
 gatgaacagt tagctgccac aatctttcac ctacggaggc ttcattcctc aatcatgtgc 240
 acccggtcat tcaagtttaa gtgacaacac gaccaaggaa gagccctcta tgacatttac 300
 tggttttcaa ggatgcactg tcagtggaaa cggaatgcct tcacttacag tgccaataga 360
 tgatatctat ggatatcgag gtccacgttc acatcggatc ttacgtacgc caatgccatc 420
 ttatggtaat gatata 436

<210> 50356
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B11

<400> 50356

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 cccgatcatc ttcaacgcga agacgacca cccacaaaac tacttcgaac actcaaacca 120
 ctacatcccc attccccaga ccaacactca ctttaccgat actattcacc cgcaacacga 180
 ctttccaccc aacatgcact acatctacac cttcct 216

<210> 50357
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-B3

 <400> 50357

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 cactcttcac tgatctgctt caggggaatg ggcttgacgt actccagatt gtctctgctg 120
 ttctactaga gaaactctcg cagcagtcaa aacatcttac caagatactg cctgctccca 180
 gcccatggct gtgcttttca atatttccat gcctcagcca gaagactgta gcaactgggg 240
 tctgtagagt tcaactgtggg atttgttcct caagggagag cttctgtctc ttgcatggca 300
 aggcagtgga gaagctagtt gcctgcttgg ataataataa cgagaaagta gtcgaagctg 360
 ctctagcagc gctgtccact ttact 385

<210> 50358
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-B4

 <400> 50358

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 aactgttcc tggcggcggg gtgcttcttt gctgcagctg tctcttctgt ccccgaggct 120
 ctcttggtt cccctctcgg cgcaggcgcc gtcaccgctg ccaagctggc ccacgtctc 180
 tcttttgcca ctctctgggg cgccggcctc tgggccacct ttatcggcgg catcatcatg 240
 ttcaagaacc tgccgaggca catgttcggc aacttgca gcaagatgtt cccggcctac 300
 ttcacgtta tctctgctg cgcagccatc tcggtcgcca cttctctgca ccttcacccg 360
 tggaagacng cctccaccgt ggagcgctac caactt 396

<210> 50359
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B5

<400> 50359

accacagagt ccatacacac ctatattcac aaaagctagt ccatttgcct cattgctata 60
ctgtcagtga ctacaagcag aaaaatcgag actgactcac tccagtatgt ccacacaaaa 120
gatctgatta tggattacct gaggataaat ttatttttgc ttgcttcaat cagctttaca 180
aaatggaccc tgagatattt gacacatggg gcaatattct caaacgtgtt cccaacagcg 240
cattatggct tttaagattc ccggcagctg gtgaaactag agtgagagca tatgctgctg 300
ccagaggagt aagatcagat caaattgtat tcacagacgt tgccatgaaa aatgagcata 360
tacgacgcaa tgccctggca aaccttttcc tggacacttc cctttgcaat gcacaca 417

<210> 50360

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B6

<400> 50360

tccgaattac gcatgcaccc acgcgtccgg accgttgtat aaaatgtatg gatataatgt 60
agagttcagt ctggtgagag gaattgacat tgaagctcac ccgtatttaa tcaaagtttg 120
tactgactat aaaa 134

<210> 50361

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B7

<400> 50361

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ggttggtttc tactgccct cccgatcggg atggggttcg tgaggttcta catggttcgt 120
gttcctgggt tagcggatct agatggctgc gtcagatgtt gaataccgct gcttcgtcgt 180
cggactcacc tggggcactg acgaccactc ccttcacaac gccttcagca cctaccgcga 240
ggtcctcgag tccaagatca tcctcgatcg ggagacgcag aagtcccgcg gcttctgctt 300

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C10

 <400> 50364

 aaagagcctt cactgcaggc gtctgtgcta agtcctgggc cagctcgcca atccgatggt 60
 ccggctgaac atacaggtga acacgccgct aaaaagcaag cgacgtaacc aagggcgacg 120
 ccaaggcgga catcaacgcc gctatcagct ctgctaatat ccctttgact gtcacgttca 180
 cagacacttg cgcaagctac gacaccaacg tcgagatcga gaagatctag gagaagctcc 240
 agctgaagag gcacctgaag atgcacacca tgctgaacac ttacatggcg gatatcctcg 300
 cc 302

<210> 50365
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C4

 <400> 50365

 attcccggct ctaccctctc atcctaataaa aaaaaacata aaaaaaaaaa atttaaaaaa 60
 taaaaaaaaa aaaaaaaaaa aaaagaaaaa tgtaaaattt aaaaaaattt aaataaaaaa 120
 aaaaaaaaaa aaatataaaa ttaaaaataa aaataaatat 160

<210> 50366
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-A9

 <400> 50366

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 gaacaaatcc tacggcgtga aggtgcccg cgcgccggcg tcgtggagct acagcctcaa 120
 cctgcagcgg ctgtgtttcc ggacggcgta cgtggcgagc accacggggc tggccctcct 180
 cttcccctac ttcaacgagg tgctgggcgt gctgggcgcc gtcgtcttct ggccccctgc 240

catctacctc cccgtcgaga tgtactgctg ccagcgcggg gtccctgccgt ggacgcggac 300
 gtgggtcgcg cttcaggcat tcagcgctgt ctgcttcgtc gtcggcacct tcgccttcgt 360
 cggctccgtc gagggagtca tccgcaag 388

<210> 50367
 <211> 157
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H3

<400> 50367

cccacgccta cactgaggct atgactgtgg atatgaatgt gactatgaag gaaacagtga 60
 agggggggaga caggaatgtg gacgggatta tgaaggagat gattgagcgt ttggaatcgc 120
 gtgtgaagac ggacgaggaa accggggacg aaaagga 157

<210> 50368
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H5

<400> 50368

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 tctcaagtaa tggcggctaa cgaatttgag tccaaagatc caatggatgg ctctatgtcc 120
 aagcaccacg gcatacgcta cctattcgga gatgggtcac gactggtgtt ccgtctatac 180
 ataaccgtgc atgttgagtg ccaccatccg tgtctacact cgacgatacg agaacgattc 240
 cttcaagacc gtcagggatt cacaggatgc ccttgctcca atggatgatg ttgcgcttaa 300
 acttctccaa aatccaagag tacac 325

<210> 50369
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H7

<400> 50369

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 aggggtccggt agagcgacct gcacttgatt acgaacggga cgggttgcgcc atcgccatcg 120
 accctgaaag cggtagacga aaccctggag gccaccgcag ctgtcgaaaa aatcaccggg 180
 ttcaccgcta cgcggtatccc cttgtactac cccttctgcc tcaacggagt cagca 235

<210> 50370
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H8

<400> 50370

gcgcccgcgc agcccgcagt cgcttgccgc cttcagcact tcggaccgcc gccccatgcc 60
 attgccgcca gtgtctgctc gatccgatgg ctcccacgaa gaagtcgaag aagagcacag 120
 agagcatcaa caacaagctg cagctggtga tgaagagcgg caagtacacc ctgggctaca 180
 agaccgtcct caagacgctg cgcaactcca agggaaagct gatcatcatc gcaaacaact 240
 gccctacact taggaagtct gagattgagt actacgccat gctggccaaa gttagtgtgc 300
 accatttcca cggaacaat gttgatcttg gcactgactg cggcaagtac tacaggggtg 360
 gctgcctcag tatcatcgac ccattgtgact aggacatcat cagtaccacc cttggcaccc 420
 agtgagccag ccccggaacc attgca 446

<210> 50371
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H9

<400> 50371

cccacgcgtc cgcggaacgc tgggtgccga gatccatgcc tttgtgagct cgagtggaga 60
 gaaggaatta aggagcagtg aatagcgata cgaccgacat gctggagaag ctgtgggacg 120
 acgtggtggc ctggcctcgc tccggagacg gtctctgtga agctacgcaa ggccaccacc 180
 gtccgaccga tcgtagtcgt cgacaaagaa atgactacat gcatcttctg atctgctgga 240
 ttgagtacat tgaacacttg ggggacacat ttggcgaaga acacgggtcat ctttatcttc 300

tactttcttt aag

313

<210> 50372
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A1

<400> 50372

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ttatgttccc aaggcgtgca cacaagggtta aggctggtga ctctactcca gaggagcttg 120
ccaccgctac ccagggtccag ggtgactaca tgccatttac tcgtggtgag aaacgttcag 180
ttgaggttgt gaaggtcaca gatgagatga agtcatttgc tgcctatggc aagctccgcc 240
ttgagcggat gaacaagaaa catcttggtg cccgtcataa gaaggcagct taagcagaga 300
atgaagataa gaagtgaagc tgttgaagat agtaccctgt tttgttctat tcaatcatta 360
atgaatgcta ctac 374

<210> 50373
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A10

<400> 50373

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aaacggagtc tatgaagctg cagaagcggc tcgccgctag cgtcctcaag tgtgggaaag 120
gcaaagtctg gcttgacccc aatgaagtca gcgagatctc catggctaac tcccgccaga 180
acatccggaa gttggctaag gatgggttta tcatcaggaa gcctcagaag gttcactcta 240
ggccccgtgc aagaagggca catgatgcca agcagaacgg aaggcactct ggatacggca 300
agcgcatggg taccaaggag gctaggctcc ccaccaagat tctgtggatg 350

<210> 50374
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A12

<400> 50374

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 atcatccact cgatcatcga catggacgcg gacgtgatca ccattgagaa ctgcggtcc 180
 gacgagaagc tgctctccgt gttccgagag ggcgtcaagt acggcgcgagg catcggcccc 240
 ggtgtctacg acatccactc ccccaggatc ccgtcggctg aggagatcgc cgaccgcatc 300
 gacaagatgc tggcgggtgct ggacaccaac atcctctggg tgaaccccgga ctgcggcctc 360
 aagacccgca agtacacgga ggtcaagcc 389

<210> 50375

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A2

<400> 50375

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 cgcgaggagg atggaggagg tgagccaccg gaagcggaga cttgagcagt cgaccaaccc 120
 cgtcgatccg gctgcggccc ggcgtgctag atcgtaccg atcatggtgg tggatgagat 180
 cgccgacggg gtgaagaacc tcaccgttac cgagacgcg gcggcttcag gcggagaggg 240
 tcatacgagg ggcgggcggt gcagcagcaa ccgcatccag gtgtccaaca ccaagaaacc 300
 cctcttcttc tacgtcaacc tctccaagag gtatatgcaa cagcacgaag atgtagagct 360
 attcgatctt ggaat 375

<210> 50376

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A3

<400> 50376

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cccgtcccca agaacccaag cccccaccat gacaagctcc tcctctcctt cccgaaaggc 120
 gctgagcaag atcgcttgca atcggtgca gaaggaactc gccgagtggc aactcagccc 180
 ccctgctgga ttcaagcaca aggtctccga taacctacaa aggtgggtaa ttgaggtcac 240
 tggagcggcg ggcacccttt acgccggcga gacctaccag ttgcaggttg acttcctga 300
 gcattatcct atggaagcac ctcagggtcaa ttttctcaat ccagcgccaa tgcattccaca 360
 catctacagc aacgggcaca tctgctt 387

<210> 50377
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A4

<400> 50377

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 taatgcattg actttcgggtg gcatgggaag gaggaagaaa agcatgccaa gaagtgggtc 120
 ttcgctgctt cgagacatcc acagagaact tccatctagt ggtgtatccg gaggtgttat 180
 gtctttgatt gatggttcat atgagtatta tcattatctt cacgatggta ttgatgacaa 240
 tggatggaga tgcgcatatc ggtctctaca aacaattgtc tcttggtaca gattgcaaca 300
 atattcatca atagatgttc cttctcacag ggagattcag caagttcttg ttgaaattgg 360
 tgacaaggat ccatcattta ttggatcttg tgagtggatc cgtaccattg 410

<210> 50378
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A5

<400> 50378

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 ggacgggcta cgctgtaca gaaaccaagg cttcaagtgc atacgagtgc cggaaggagc 120
 taaatggccc gaaccaaga tagctaaagg agcggagtac aacttcatga tgaagctagt 180
 gcccaaggct tgagtcttga accttataag atctgactag ggaaaaaaag ggaaagggtt 240

ggccgtgtag gttctgcacg gatgcacgat ttgctctgca ttcattgtga cagcatttgg 300
tgtatagtgg aagctacttt gtaaattgga tatataacag ctacgtgttg gtccatagtg 360
agtga 365

<210> 50379
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A6

<400> 50379

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ccttttctcc atgcgcacgg cgtatctcct tcttcgactg ctctcactgt gacggtgaga 120
cattcgaaaa gtccatggca actgaaacgt gaacatatgg tgtatgtttc ttcccctaata 180
tcggtcgtat ttggatgctt gagtcctgca ttgcatgatg aagaacattc tcagtctctc 240
gtcgcgtgta aatattttca ttcaagatct atcaggttac cgaag 285

<210> 50380
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A7

<400> 50380

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cgatgcagcc gctgcaccaa ccgtcgatga acggccaaca cgtccgcct cctccgcagg 120
gatccgggggt tcccacgggt tcgcagcagc aagcgccacc gacgtcgtac taccagcagc 180
agcagcagca gcagcagggg ccaccgtctc agtactacca gcaggggtacc gcacaggcgt 240
gggcgcagca gcaacagtac gctccaccgc cgccgcagta ccgcgcctca gatgcagcag 300
tacgtcttac caccgcagca gtacgccctt ccgcagtagc agcagtagc cgctacgccg 360
tagcagcaat acg 373

<210> 50381
<211> 286
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-F12
 <400> 50381
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 cggggccgcg agcgaccgta gcgaggtgat tgcaatggcg gcctccactg cttcccgcct 120
 ctgcggcccg cgcttcagca ccccttcccc gtctcttcat cctccaaacc gccgctcgcg 180
 cttctcccct gttcgcgag ccaagttgga agctgtgctg tctattggcg ctcactaat 240
 cccacacca agaaaggctg caagtggcgg agaagatgct ttcttt 286

<210> 50382
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F8
 <400> 50382
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 tggcggcgga gccagccagt ccatctatga tggcggcttc cagggcatca atactgtcac 120
 cggcacaact tccgcccagc agcagcagca gtcctgtac tactagagta ctactactcc 180
 atgaggcacc cagctaccta tcccttcaag aggaaggcga ggatgaatgg atgatgcccc 240
 ttactatacc cctatacata tagtagatga tgaagtcatt actaggacct tttttcccta 300
 atctttttta gaccatcta agtaacatgt cctctctatg ctagctatat aattgtgtat 360
 ttctggatac ataaagccaa ggttcttagt agtataatct ttctgtgttg accatctttt 420
 attgtgatgt atggattttc gttggcac 448

<210> 50383
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F9
 <400> 50383
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atggatgatt ctattgacag aattgtagct ggtatggaag ggaccgtgat gacagacggg 120
aagagcaaaa gtcttggtgc ttaccatgaa gttgggcatg caatttgcg aactttgacg 180
cctggccatg atcctgtcca aaaggttacc ttagttccaa ggggtcaagc tcgtggtctt 240
acatgggtta tcccgatgga tgacccaaca ctcatctgca ggcagcaact ttttgccaga 300
attgttggcg gccttggt 318

<210> 50384
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G1

<400> 50384

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tagcaggcta cgcgccaggt ctccaacttt ggttcactca tctggcacta tactgacgct 120
cgccatcgcc agcgactaac taatcacct cagtgaacat ctcacgctgg tcagatgatc 180
gagggaatga cagtcccaga agcaccgatc aagtaggcta tcgaacatat acagacacat 240
ttgcacggga atgactatga aggcatacac ctatt 275

<210> 50385
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G10

<400> 50385

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agaacttctt cttctattaa ttacagtata ttgtaatttg gctgctggta cggtggtggc 120
atgatttgag atgtgcatga tgatccttgt gtaattttat taccaagtct cttcttatat 180
ttacatgttc atttgcttgc ttcttgc 209

<210> 50386
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G12

<400> 50386

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gaagggatta atgccatatt aatcccctat tggacacttg cccaatg 107

<210> 50387

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G5

<400> 50387

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ccaggctgcc gcctctggcg cactccgttg gctctatcct gacgctcgcc atcgccgttg 120
agtaactcgt caccctcaat gttcgctca cgctcgccag gtgtttgagg gaatggtggt 180
accaggagca gtgatcgtct tgcctattgt atttatacgg aaacatttgc acggttttgt 240
ctatgtttgc atacacctat tgtatgtata cttctaactg ttggtatgga ggtgacctgc 300
aacttctcaa ccaaggcgag cacagtcacc cttgtgccac agcatgccct ggactctacc 360
aacaccgtga a 371

<210> 50388

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-G6

<400> 50388

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cgcgctctgc tctaagtgga cttcttaagg atgatgggat tctggtgatt ccaactgctt 120
tggggtgccc cccgaagctt aacgctaagg aactctcgtc tgaaagctac aattctcaga 180
cactacgcct tttgtcttta gctagcatgt cagggtgttg ccaggtttcc attccttttg 240
gtacacatga taagtgcctt atttcagttt cgttgattgc taagcatggt ggtgatcggt 300
ttttgttgga caccacacan accatgtata caaccatcca ggagccagtg gagatactag 360

cgaaatctag tgtttcaagt aaacaggcga tgaatgaaga ggcagctgaa gctgctaaag 420
 agaaaggtaa tgctgcattt aa 442

<210> 50389
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G8

<400> 50389

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 cccgtggtct gctagcggct agccacagcg gagagaccag gagccatggt gatccctcca 120
 ccagcaaggg cagctagagt caccgcgttc ctcaagccct acctgttgag gatgcatttc 180
 tcaaacaagt atgtatctgc tcaggctcgc cacaccccaa cagcaactgt tgcattgtct 240
 gcaagctcgc aggagaagct gttgagacca aacatggagt cgaccgcga cgtcgcagca 300
 gctgcaaaga ttggaaagtt gctcggcgag cgctgctcc tcaagggaat acctgcagtg 360
 tccatccaca tgaagagaga acaaaagtac catgggaaag tgaaaggccg tatagattca 420
 gtcagagaag ctggagtcaa ac 442

<210> 50390
 <211> 256
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-G9

<400> 50390

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 ctcagcatgg ctaatgctgg gccgaacacc aatggcagac agttctttat ttgcactgtc 180
 aagacacctt ggttggacgg aaggcatgtc atgnttggtc aggtcctgta agggatggat 240
 gtcgtaagtc tgcacg 256

<210> 50391

cgtgaggaga tgaaagatat agagatcgtg tacaggcctg tctcagacat gtatcaagct 240
gctgcttaag ctgatgtc 258

<210> 50394
<211> 320
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-D6

<400> 50394

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aggcatggag gggaaggagg aggacgtccg cctgggcgcc aacaagttct cggagcgcca 120
gcccacggc acggcgggcg agggcacgga cgacaaggac tacaaggagc ccccgacggc 180
gccgctcttc gagccccggg agctcaagtc ctggctcttc taccgcgccg gcacgcccga 240
gttcgtcgcc accttctct tctctacat ctccatctc accgtcatgg gcgtctccaa 300
gtccacctnc aagtgcgcca 320

<210> 50395
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D9

<400> 50395

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ttattaaagc ataaggagga acagtcacaa tggagccagg ccctgtcaaa ggtgggaaat 180
cagtaattgc ctttattgaa gatcctgatg gttacaagtt tgagcttata gaaagagggc 240
ctactaccga gccttagtgc cacgtaatgc ttcgagtggg agatcttgat cgtgctataa 300
atctctatga gaaggcattt ggcatggaac ttcttcgcaa gcgagacaat tctgagtaca 360
agtatacgat tgctatgatg ggatatggta caaaagacaa aaatggctga ttggagtga 420
cctacaacta atgggtgaag gaatatgata agggaaatgc ttat 464

<210> 50396
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-E10

 <400> 50396

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 ctggtccagc agacaccgtg atgttccata accagtattg gacgagcagc acgcgccgca 120
 ggaggctgaa gaagaaccat ctccatctcg aggaccttga ggatttgatc tccctattat 180
 agaaaaccgg gttcgcagga cgcatagaact gtgtgtgggg gaataatcgc aggttagcac 240
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<210> 50397
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-E12

 <400> 50397

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 acggacaact gtgaatgtcc gtatcactgg acttaccctt ggacttcatg gcttccacct 120
 ccacgagttt ggtgatacta ccaatgggtg catatcgaca ggaccacatt ttaatccaaa 180
 caatctgaca cacggtgcac cagaagacga agtccgtcat gcgggtgacc tngaaacat 240
 tgttgcaa at gctgagggca tagccgaggc aaccattggt gataccaga ttcctttgac 300
 tggccccaaa tcagttgttg ngagagcgtt tgtgggtcat gagcttgaag natgatttgg 360
 gaaagggggc catg 374

<210> 50398
 <211> 361
 <212> .DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-E6

 <400> 50398

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acgtgcgtca tgcggaactg ctgccttgcc ccccgcgccct ttctcttcca tgtttgctgc 120
tacaatcttg ttgttgggca ttgcagtgcg cgggtgcacac ttgtgtagcc cgcctcgaga 180
attcctgcct ctgcactctg tcaagttctaa aatgatttgc atgttggcta tgttgtgtaa 240
gctctattta tgggtggtctc gctgagacgg gtatttggct tcgcagttat ctagctatgt 300
gatgtactgt tgtcttgtcc ctgggtatta tatggtacac tgcagccagt aatagtaaaa 360
a 361

<210> 50399
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E7

<400> 50399

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gcaccgccac tgctctccac tctctctcct cgtggccgcc gccctcgccg ccgtccctgc 120
tcgcgcggcg ctgggcggcg ggcgcggccc gctgctgggc ggggtggaacc cgatccctga 180
cgtgagcgac tcgcacatcc aggagctagg cgggtgggcg ctggggcagg cgaagcacca 240
gaagctggcc gccgacgggc tgcggttccg ccgcgtggtg cgcggcgagc agcaggtcgt 300
gtccgggaig aactaccgac tctacgtcga cgccgccgac cccgccggcc gcaccgtgcc 360
ctacgtcgcc gtcgtgtacg agcaggtctg gaccc 395

<210> 50400
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-E8

<400> 50400

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tcggttgaca ctctcatcga ggaccatctc tgcgctgagc cagtgagcga atacgtccag 120
agctgcgaca ttgtcgcctt caacaagatc taaatttcct tgtgatggtg gcaatggtgg 180

ttggtgggca ctgtaccagc ctaatttata atgttccatg agcatcttca agagttactc 240
 taaattatca tttggagtca tttacataaa aagcactttc tatatctttt taatctcaac 300
 aacttttcta tatcttgctt gcaccctgga gagctattta cgttttctat ctctagctag 360
 cgagaaacct gnatggctgg aatagaagat cacta 395

<210> 50401
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-E9

<400> 50401

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 ctgcgtcgag atggtcgagg ttgtatatga cagaatgact ggacggagcc gaggatttgg 120
 attcgtgaca atgtcttcgg ccgaagaagc cgaagctgct gtcgagcagt tcaacggtta 180
 tgcatttcaa ggaagacaac tgagggtgaa ctgcgggccca ccgccaccta gagatgaatc 240
 cacaccaaga gcaccaaggn gtggtggtgg cggcggcggc ggcggctatg tcgattcagc 300
 taacaaggtc tacgtgggga accttgctg gggcgttgac aactcgactc tggagaacct 360
 gttcagtgag caagggcaag tgcttgatgc taaggtcatc tacgacaggg atagcggcag 420
 gtcaaggggg tttggtttcg tcacctat 448

<210> 50402
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F1

<400> 50402

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 ggacagtccg cggatgatggc tcggacggtc tgcgcgtgcg cagagtcagt taggatttct 120
 agtttctcgc gggatttgtt acctaaaacc gcgggattaa ctcggaatc tgttggaagc 180
 ggatccagac ctccccctta tatcgatgaa gggctacggc cgattgtact ccctaacaaa 240

<210> 50403
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-B9

<400> 50403

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gcggaagctg tgggtagacg agctgaagaa gcagaaggaa gccgcgagga gatggggcgt 120
cggctcatca ttagagggtg caggagcgac cgaggaggca ccgtaagga gctatcagta 180
cgaatacagc ggctctaacc ccgtggaggc caaactggct ccgcttcttg caagagctaa 240
cctcgtcatt gccagggata ttgagtgggc aaacatcatg tttgcttttg agcaggagag 300
caggtatatc ataatggacc cactctttcc acaatctcca gtaggtttta ttcgagagaa 360
aagcancatc atctttagac agttactcag aacaagacgg ccatttggtg cagaaataac 420
tgatgctatg ggtaacgaga 440
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<210> 50404
 <211> 262
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-C10

<400> 50404

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ggtcactata gatgtcgcaa gtcctgaggc tgggtgttatt gaaaagctca ttgctagtga 60
aggcgacaca gttactccag gcactaaagt tgcaatcata tccaagtctg ctcaacctgc 120
tgaaacacat gttgctccat cagaggaagc aacttcaaaa gaatcatctc caccaaaagt 180
tgaagataaa ccaaaggtag aggaaaaagc cccaaaagta gatcctccca agatgcaagc 240
accaaagcca actgcancca tc 262
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<210> 50405
 <211> 353
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C11

<400> 50405

aagaccaagt cgtggaagaa gctagtgaat gttgctgtgt caggcgcggc cgggatgata 60

tcaggtcacc tgctgggtcaa actcgtttct ggtgagggtt tcggacaaga ccaaccaata 120

gcacttaagc tactcggctc agaaagatcg tttcaggccc tcgaagggtg agctatggaa 180

ctggaggact cgctcgatcc actgctgagg gaagtcagca ttggcataga tccttacgta 240

gtctttcaag atgtagattg agcccttctt attggcgcta agccccgaag tcccggcatg 300

gagcgagctg cgctactgga tatcaatggc caaatctttg ctgaccaggg gaa 353

<210> 50406

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-C12

<400> 50406

cgcaaatgcc attgtcgcag gttctgcagt ttttggggct ccagactacg ctgaagctat 60

cagaggaata aagaccagcc aaagacctct agctgtagcc gcataaagag ctggacgtgt 120

aatcatttac tctgtgcaag ttaccagtg atgcgatctg tatagatgtg tgtcttgtcc 180

agctatacgt ataccggaga tgaaaggaga cggaggcagt gaagaaatat cctttatttt 240

cttctcatth ttacagagga tgccgtgcac tgctcccaga atgctngtgt ccaattacaa 300

acgcacaggt ggcacatgaa ctaacaaagt agctcttttt tgaaaggaaa cggaattggg 360

ggtcgatgaa ccttctggtg ttattcttca gactggtaaa cgatgtaaca tggttgataa 420

tcaataaagt ccgtcggatg gttttcct 448

<210> 50407

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C6

<400> 50407

catgccctag gaccaggggtg tacttcacgc tgtctcacag gacctcgaac tgggcctacg 60
atccctgcac ctgaagacga accggtatca ggatgtgggtc acaaggagga gcctctatac 120
gaggccgacg tcgctcggag gcgcgcctat gttgtcaact gccgaggcac c 171

<210> 50408
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C8

<400> 50408

cccacgcgtc cggccaaaca cacgcgaaaa gaatgagttc gagtacaggt tacagagagg 60
cagagagcaa agatgtgtgg tgggtgcgatc ctgcgcgagc tcatcccgac cacgccggcg 120
cgccgcggcg gcgcggcggtg gcccgcgggc aagtgcgaagc ggcggaaggc gaacgacttc 180
gaggccgcgt tccgggagtt cgacgaggac tccgaggagg aggaggagga cgaggggggtg 240
gtggagagca agccccgcct tcgtcgtccg cgctctgtcc gcggcgacgc agcccagggc 300
gcgccaggag cagcgga 317

<210> 50409
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C9

<400> 50409

gcaggaggaa gtctgtccgt ggttgcatcg tgagccaaga cctatctgat atcaacttgg 60
tgagggtcaa gaagggtgag aatgatctgc ctggtctgac tgacactgac aagccaaaga 120
tgagggtcc caatagggcc tccaagatca gaaagctgtt caaccttaac aaggatgatg 180
atgtacgcaa gtacgtgaac acataccgca tgacattcac taccaagaac ggtacgactg 240
tcagcacggc acctaagatc caacggcttg tgacacc 277

<210> 50410
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D1

<400> 50410

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tgctgttggg gcaagggaaa tgacttcaca cttttttatt gattctgac tgatgcatcc 120
ttagtgtagc actttagaag gttcattagg ctgtaatat tttgcatgcc tcaagaaaat 180
cacttttcta tctagagaat taggtttagg taaagacatt tttttatctt cgaccatcat 240
gtcaagaata gtggtatatt agaaagcatg tcgtcaatat gttgatacca ttttttttta 300
taaaaagtga tgtagcatgt cgtatatattg taaaaaaaag aacatttgca taatactccc 360
tccatTTTTT tatttgacgt tttgcagttc atttgtccat aagctggcgt caaataaaa 419

<210> 50411

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D10

<400> 50411

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cggcaaatg gtgcagcggc tcacctaccg gaagcgccac agctacgcca caaatccaa 120
tcagacccgc gtggtcaaga cccctggtgg gaggcttggtg taccagtaca ccaagaagcg 180
cgcgagcggga ccgaaatgcc cggtcaccgg gaagaagatc caaggaattc cacacctgag 240
acctgctgag tacaagaggt ccaggttggc aaggaaccgc 280

<210> 50412

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D11

<400> 50412

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caagtgcctc gcgccattcg tcaaggtgct cgacaaaaag ttcggcatca tcaagggcac 120
catgaccacc acccactcct acaccggcga ccagaggctg ctggacgcga gccaccgcga 180

cctgcgccgc gcccgcccg tcgcgtcaa catcgtgcc acg

223

<210> 50413

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D12

<400> 50413

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gggcaatgtc cttgcgatgt caggtctctt cttttttcta tatcaaagt tgatctatcc 120

gttccttgcc aaaacggtag accacatcac attagtccgt gcagtggcgt tattgactct 180

accggttctt gctagctacc cattctttcc ttcgttggtc ggggtcgggc tcatgggtgt 240

agtaaattgt gcattctttc tgaagaatac attctc 276

<210> 50414

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-B7

<400> 50414

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cttccaagca aagggaaatc tgggaaggat ggctggatc ctccaggcca tggatgatgt 120

ttcccctctt tgaataacag tggaaaactc gacatcttat tggctcagg caaggagtat 180

gtcttcgttg ctaactcaga caacttgggt gctatagtcg acatcaagat cctgaaccat 240

ctgatcaata accagaatga atactgcatg gaggttactc caaaaacatt ggctgatgtt 300

aaaggcggta ctctcatctc ttacgaagga agagttccag cttttggaga ttgcccaagt 360

tcctgatgag catttgaatg agttt 385

<210> 50415

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-D2

<400> 50415

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aggcatggag gggaaggagg aggacgtccg cctgggcgcc aacaagttct cggagcgcca 120
gcccacggc acggcggcgc agggcacgga cgacaaggac tacaaggagc ccccgccggc 180
gccgctcttc gagccccggg agctcaagtc ctggctcttc taccgcgccg gcatcgccga 240
gttcgtcgcc accttctct tctctacat ctccatctc accgtcatgg gcgtctccaa 300
gtccacctnc aagtgcgcca ccgtcggcat ccagggcatc gntcggctct tcggcggcat 360
gatct 365

<210> 50416

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H6

<400> 50416

atcaaataca agatcacgtt ttctggctga atatcatatc acagacactg cgcttcggga 60
tcaaccaacg ctgggcgag ctgcgtatta gctactgatt ctccattctc tggaagccac 120
tatctaaaag cactggctaa agaagatcaa cctttgctcc aggtcgatga aactacatct 180
taaagtgcact gtctcccata acacccttta tgctcatttc atcagaacga tccactgtcg 240
ttcattatac actgaatgca ataaatcact cagcatcct atgaacatag ctctcctaata 300
atcgctgctc tatgctgata cctctgggtga catgctactc ttactaatgt tggcacttct 360
gaacaacgca ttctatttca agcccttaat gaaccagccg atatagatcg acaatcaaata 420
tcttaaaaca a 431

<210> 50417

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H7

<400> 50417


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cccacgcgtc cgccctgcgt tgcgtcttgg gggagagaga gaagtgggag acccgcgaga   60
ggctgccgtg tagggactag ggaccgtaga gtaagcgaca gcgaaggagg gagaggggga  120
tggccgggat cgggccgatc aggcaggact gggagccggt ggttgtgcgg aagaaggcac  180
ccaccgtcgc tgccaagaag gatgagaagg cgtcaacgc cgcgcgccgc tccggcgcgg  240
agatcgagac catgaagaag ttcaacgctg gtatgaacaa ggcggcgtcc agcggcacat  300
ccctcaacac caagcgcctc gacgacgaca cagagaacct cgcccatgag cgagttccaa  360
gtgacctgaa gaaaaatctc atgc                                           384

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<210>      50418
<211>      435
<212>      DNA
<213>      Zea mays

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<223> Clone ID: LIB3079-031-Q1-K1-H8

<400> 50418

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gtcaacaaga ttttggttgg caacaaggcc gatatggacg aaagcaagag ggctgtacct  120
actgcaaaag gacaagcact tgctgatgag tacgggatca agttttttga aacgagtgcg  180
aagacaaacc tgaatgtgga gcaagtgttt ttctccatcg cacgtgacat caagcagagg  240
cttgcgagga ctgattcaaa gccagaggac aaggcaatca aaattaacaa gccagaccag  300
ggttccgagg caccagctgc ccagcgatct gcttgctgcg gtcataagc agatgcacga  360
tggccatagc ctttggttat ttgacattat ttatttcccg cttggctggt ataggaaaga  420
tttgaagaag ccaact                                           435

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<210>      50419
<211>      138
<212>      DNA
<213>      Zea mays

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<223> Clone ID: LIB3079-032-Q1-K1-A10

<400> 50419

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cccacgcgtc cgcacactcg tacgcggacg agtagtcaga cgcgtagttc tccgtcctgt   60
tcgggtccaa gaatacgcgg tggtcgaacc tagagaacgt gctgctttgg ggatctgtgc  120

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<400> 50422
 ctgagaccct cgctacccag ccattagcaa attcgcttat gctgtccaag acttatctta 60
 cgttatgtct gtacgctttt gttattacaa gtactcaagt tttagagtctt tgagatgtgg 120
 ctaggacaat gtgatgaaga accctaaacc atcgtattag agtgaaactt gtttcta 177

<210> 50423
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A3

<400> 50423
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 gtggccatag tcgtcgtagc acttgccgtt tcctcctgtt ccgtgaccac cgatgctcca 120
 ggctgggag tgggagccag agagatgggt gcacgggacg accccaagtg cgaggagatg 180
 gtgccctgca ccttcaggcg ctgcatgcag tactgcgtca gcatcgggct gcagcccaag 240
 gggttctgca actccaagcc caacatgcag gtctactgct gctgcgtcat cccctagcat 300
 catagctcct cgtcaacaca cctaaatctg cagacctgct agagaagata cgatctc 357

<210> 50424
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A4

<400> 50424
 gccgcagttc gcgcttgtgg ggctcgccga ggcgttcggc gtcacgggg agatcgagtt 60
 cgtgtacacc gagctgcccc agagcatggc cagcttcagc atgtcgctgc tgtacatggc 120
 cttcggagtg ggcaacctgg cgggcgcctt catcgtgaag gtggtgcacg tggccaagcg 180
 ggcaaggggt gggaacgggc tggctcgtcg acaacttgaa cgtcggccgc tacgactatt 240
 actacttgct gctcacgggc tacggcgt 268

<210> 50425
 <211> 254

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actattattc tataccacac agaatagaga cattgctagc gtccagatag gacctacgct 180
gacattattg ctgagctctc agcatatgct gattcatcat cacagacgat cagtcctttt 240
attgatccta tccatagttt gaatatgcct aactatgaac cccagcgggtg gtcatttttc 300
agaaatcttg cacaaaatga gtttccaaaa aaggatgagg cccaagatct ggcaaagatc 360
gaggaaggag tttatccctt agatcactta gagcatgata caactaatgt gaagaatttg 420
gatc 424

<210> 50431
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-031-Q1-K1-H4

<400> 50431

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ttgcatcctt gccttcacgc ccaactggatg gggtttgctc ctgattgccc aagctatcag 120
gcctgtgatt caaaagatcg ggctgtgggg gtcgatcaag gctcttgccc ggggctacga 180
gatcctaattg gggcttctcc tgttcacgcc cattgctttc cttgcctggg tcccgttcgt 240
gtccgagttc cagaccagga tgctgttcaa ccaggccttc agcagaggtc tgcagatctc 300
ccgtatcctg ngaggacaca agaaagaccg aaggacgcgg aacaaggagt agtagggctg 360
ctgattgaag gtccgtctat cgggagttat gtcgt 395

<210> 50432
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-B5

<400> 50432

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gttggcaaca aaaaggata ttgatggcag acgtgtattt cttgggtgaa taatatatac 120
tgctagaatt aatatgggca ccaacaacga aatatctata atgttattct tcagtgtaat 180

<210> 50435
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G10

<400> 50435

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ggttcaacgt cgactggagt gccaacgaga tcgagatggt gagatctctc atcgcttgct 120
acggcgccag caacagcacg aacgacgaca ttgtggatga gctccaggca atgttcccag 180
ggaaggataa gcgccaggta actgacttgt acgttgagct tgtggtggag atgataaaca 240
gtggggcaga gctgagcagc aaccagctcc tgctcaactc tgggtgggtg cacagcagga 300
cgatggatgg gtatttagca gacgagatga aggcgaagag gatgctgctg gaggaacagc 360
gccgtaggaa attagttgct gttcctcgac aggataacca acaacgtgca aggaggtttt 420
ggactctgg 429

<210> 50436
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G12

<400> 50436

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cagagagcaa agatgtgtgg tgggtgcgatc ctgcccagc tcatcccgac cacgccggcg 120
cgccgcggct gcgcggcgtg gcccgccggc aagtgcaagc ggcggaaggc gaacgacttc 180
gaggccgcgt tccgggagtt cgacgaggac tccgaggagg aggaggagga cgaggggggtg 240
gtggagagca agcccgctt ctgcaccgc gcctagtgcg cggtgacgca tcccatggcg 300
ctccaggagc agcagatccg gcgccaggcg cacgaccagc agcagtacat gggc 354

<210> 50437
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G3

<210> 50440
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G7

 <400> 50440

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 aagatccttg tacaatcaag agttcataca atagatgaaa cgatattgtg attctctcaa 180
 tgggtggcttc atgagcaagc aatcattcac cttgttcact aaaatttcag actgtagctc 240
 agataaggct ttgagcattc cttgctacaa tgcttccgag agaagggaaa cgggcaaagg 300
 ggaaaagaga cgaatagaag ggcattggtg ccctctcaca cacaggccaa gtatacatcc 360
 acatgccaca aggctgaagc ttccacatga acaagagaat ggatcgtgat agctattgca 420
 agatgatgca c 431

<210> 50441
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G8

 <400> 50441

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 gggagacggg gaattaatcc ggtgttgctt tcatgcttaa attggatctt atagtcttat 120
 tccaacacct aacatgtctc ttgttcaatc ttctctgta tcatattgta tgcatagatt 180
 tttgatgggt cctgtgaaac cttggcataa tctatacaca tgaaataagg ga 232

<210> 50442
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-G9

<400> 50442

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ccctccgcag gggtacccgc cgcagtagcg gcagccgccg cctacacagc agcagcagag 180

cagcgggcct tccttcatgg agggatgctt ggctgccctc tgctgctgct gcctcctgga 240

cgctgcttc tgagagttag agggggccgac cgacggattc gacacggcga caagtgaac 300

tactagcttt ctatgcgagg gagagagaga gagagctgga actggattga gcctggaatg 360

ctatcgtgct attctagctt tgtcagagca taatatgtcg ccctaggntt ttatttctct 420

ct 422

<210> 50443

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H1

<400> 50443

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ggtacgcact cagcttcgaa catgtagtag caacttttag atctagagcc atgtgaaaaa 120

aggcagggtt gactttaacc cagatgttta gggatttttc gagcagcaaa ctgtgacagt 180

atgtatgcat tgacaattta aagctgaagt ctggaccggt ttccatgaaa aaaaagccca 240

aaagaaaaaa aaattccaaa caattgcaca gcccaaaagg caaaatggga cgcaccat 298

<210> 50444

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H10

<400> 50444

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ttttatgcgg tggaaccaca gatcatgtcg agaagattgt caaaaccctg aatgaacgac 120

acgtttcccc ttcagatgtc gtcgagggtc ttgtcagcca tgcttatgtc ttccttgctg 180

tttcttgca

429

<210> 50447
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E5

<400> 50447

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tttgagttc ttcctcgctc tgctccaagg ccggcgcagc gcaggagatc gaaggggaag 120
gatgatggcg gcgatgggag gcgcggtgag ggtgctgtgc ggcgcggaga aggagcgggt 180
ggtgggcacg cgcaaggcgc ccggggcgctg cccgcgctgc ggcggagccg tgggtggccgt 240
cgacgtggag agcgagcgcc gcttactcgg cctgccgctg tgcctccaga gcaagcgcaa 300
gtactcctgc acccgctgcc tccgccggct cgtcacctc tacagctgag agtcaagaa 360
cgagctacac tacgctacac atgcaccctc cgatctcttc ttgccaagcg cccgtcggcc 420
cgcccgtcga cgatgac 437

<210> 50448
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E6

<400> 50448

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gcctgcccag gtggaaccag gctacggcgg gtaccctcct ccccagctg cagggggcta 120
cgcgcgcgcg cctccgcctg tgctgtgca ggagcctggc tacggcgggt accgtcctcc 180
atctgctggg ggctaccggg cggggtacgg gtacagcaac ctgcctcgcg ctctggcgtc 240
tgaacagacc gtccgcgtct actgcaaggc cggcgaaggg tacagcctca ccgtcaggaa 300
cggcaccgtg tgcttggcgc caaccaacc cagggacgag ttccagcact ggggtgaagga 360
catgaggcac agcactagca tcaaggacga ggaagggtac ccagcgttcg cgctggtgaa 420
caaggtcacc ggcg 434

<210> 50449
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-E7

 <400> 50449

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 tcctgcccag ggggaaccag gctacggcgg gtaccctact actgcagctg cacggggcta 120
 cgcgccggcg cctccggctg tgctgtaca ggagcctggc tacggcagat accgtactcc 180
 atctgctagg ggctaccggc cgggggtacgg gtacagcaac ctgcctagcg ctctggcgtc 240
 tgaacagacc gtccgcgtct actgcaaggc cccagaaggg tacagcctca cgcacaggaa 300
 cggcaccgtg tgctgtgcg taaccaaccc cagggacgag ttccagcact ggggtgaagga 360
 catgatgcac agcactagcg tgaaggacta ggaaaggtag ccagcgttcg cgctggtgaa 420
 c 421

<210> 50450
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-E8

 <400> 50450

 aggggaagaaa ggtccacaca ggacactcct ctttcgtctt tctccttcct cggcgctcgc 60
 tgctgcattc gcgaacacgc atcgacccta cgactacgag tagcgagaga ggattgatgg 120
 cggcgagct gcggtacatg atgagccatt attttggtag cccacctagc aagggttcgcg 180
 ggatcgctcc cagaaacgtc cgagttgcag ttcccaattt ttttctcttt ctttccaaaa 240
 tcattttctg aagaattctc cccaaatcct gttcacttct ttgggttcggg gttgacgggg 300
 ttctttgttg ctaacgaggc aggaggtgat ccaagatctg tactacgcct tgaggacaaa 360
 gggaggtttg acccccaagg aggaggagac gtcctggct tgcaatttac ttcctggtgt 420
 ttatttcacg gtggg 435

<210> 50451

<211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-E9

 <400> 50451

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 cgaggtggtt ctcgactacg aggtaaaccc catgagcgac ctccctcccc ttccccgggt 120
 gggcgctcgtg ttcagcgccg ggaggtccct gagccacgtc acgtggtacg ggcgcggggc 180
 cttcgagtgc taccgggacc gcaaggcggc ggctcacgtc gacgtgtacg agaacagcgt 240
 ggaggagctg cacgtgccgt acattgtccc cgttgagtgc ggcggtctgg cagacgtcaa 300
 gtgggtggca c 311

<210> 50452
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-F1

 <400> 50452

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 ctacaagaag gtctacggcc ggcgcgagcc cctccccaag tgggccgacg cgcacgtcga 120
 cgagttcatc gactccgacc cgggtctacg gccccagctc aaggccctgc gggagtcgag 180
 gaagtttgcg ctgcgcgggg ccttcgccgg cgccgtccac ctgcggcgcg tcgcgtcaa 240
 gtactccaaa ggcgcgcacg gcgtcgtgct ggcgaccggg ttcggggcga tcacgggcgc 300
 cgtgctgggg tccgaggtgg cggagcactg gtaccagctc tacaagatgg acaagcaggg 360
 ggccaacctt aggttcatct actggtggga ggacaaggtc tcaggacaga agagctgaac 420
 catgttgaat tgaatgatg 439

<210> 50453
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-F10

<400> 50453

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cacaaggaag atagtgggtgc cagcttcagc tctgctcgct ccaaggactc aaactcaaag 180

gaaagcagca aaaggagccg aagaaaaaga gacagaagca tcacgaaagt ggactaagag 240

gatcccaaag ggtacatata tgtcacggcg atgagaggac aagctacgga caaccacagt 300

cttgcataga aagtgaagag ggagagaatc agtgagaaga tgaggggtgtt gcaagccctg 360

gtccctggct gtgataaggt cactggaaaa gccctcattt tggacgagat catcaattat 420

gtgc 424

<210> 50454

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-F11

<400> 50454

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gatgatggcg gcgatgggcg gcgcggtgcg ggtgctgtgc ggcgcggaga aggagcgggt 180

ggtgggcacg cgcaaggcgc ccggggcgctg cccgcgctgc ggcggggccg tgggtggccgt 240

cgacgtggag agcgagcgcc gcttctctcg cctgccgctg tgcctccaga gcaagcgcaa 300

gtactcctgc acccgctgcc tccgncggct cgtcaccctc tacagctgag agctcaagaa 360

cgagctacac tacgctacac atgcaccctc cgatctcttc ttgccaagcg cccgncggcc 420

ccgccgtcgg cgatgacaa 439

<210> 50455

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-F12

<400> 50455

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ggccccagcg acggctccag cgcaggcgcg aggaagaagc tccaactcac caatgagcag 120

tcgacgctgc tcgaggacac cttccgcgcc cacaacatac tctccaacgc gcagaagcag 180

gagctcgcac ggcagggtgga tctcagcgcc aggcagggtg aagtgtggtt ccagaacaca 240

catgttcaga taacatgttt tgcattgaact accctctgta tctaacaaaa agaagttcaa 300

gtttgcagga aacaaccaca atcgaattgt tgcaagtgcg tcccacgacg tgaagacaaa 360

aagatctgtt gtccattagc aacaaagtgc tacagaggct gtgttctgtg taccagtact 420

ngatagttag tttcagaatg aa 442

<210> 50456

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-F2

<400> 50456

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anggtggacc aatacctgct gcagccaccc tctgtaccgt gagtctgagc ttatccagga 120

gaactacctt ggtgtgagaa atgcagcaca gaggaagcta ctggatgagc tgggcatccc 180

agcagaagat gccccagttg accaattcac ccctctgggc cgaatgcttt acaaggcacc 240

atctgacggg aaatgggggg agcatgagct tgactacctg ctgttcacg tccgggacgt 300

gaagggtcag ccgaaccag atgaagtcgc tgacgtgaag tacgtgaacc gcgacgagct 360

caaggagctc atccggaagg ctgacgctgg cgaagacggg gtgaagatct ccccctgggt 420

caagctggtg gtggac 436

<210> 50457

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F3

<400> 50457

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 ggagcgtctt cctgtgcccc agatcttggg ctgccggtca ggacgcttcg tcgtcctccg 120
 gcacagcgaa cggggtcacc agtgcgcat cagggaaaac accggcctgg cttagctaca 180
 tgccgttctg gccgaccatg tgatcggcta gcacacgcac accccaaact cttccaggtc 240
 ctaaagaatc tccaagtatt gcatttgtga gacagatggc tacaaggaca ttgtaaatgt 300
 atattttgga gtttgtaagc atcttgaatg gtgcacgtgc gatcctgcaa atcatctgtg 360
 gcccatgtta caaccacag attcagggaa aaaatatcga atgattatgt aatta 415

<210> 50458
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F4

<400> 50458

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 gtcagactct gcggcttcat tatataagga cgatcacgtc ccgcctagcc ggaagctgct 120
 gaaaagtgcg aaccacagca agagctgagc tctggagcaa gattcttcaa tgctcataga 180
 aaagttgtct tgctgaggcc ctaacctgag caggggcaat ggcttgcatc tctgtgaaat 240
 ttggtcttag tgtggtcgtg ctgcatttac cggaagagct tagaaaccat ggacacgcgt 300
 gataagagat aattcttagg ccgtgatgtg tgcacgtgac atggcttgct ccccgccatc 360
 ttgcaaaatt gtttatgtca ggttgattgt atctatctac atacatgtta tgttatttc 419

<210> 50459
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F5

<400> 50459

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 catggccatc gtgttgacac cctgccctgt gcacggacga aatgatggta gctatacatg 120
 tgcacatgc ccactctaac catatttatt tagtttctaa aagattgtat gcattggata 180

atataagtac taatatttat ggaatatata cttttacaat aaaattatta aagatatata 300
 atatagagct tgaaccatac aaaccctaac tgataatgag taaccataac atatgtatat 360
 gtactccatt cgttaccaac aataaggtgt cttacatatac aagtaa 406

<210> 50462
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C8

<400> 50462

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 ctcaacaagca tctatagcat cccttcttcc cccgtacctc tcaccagcgg cgtcttcggt 180
 atgtgaaaac ccaattcttc aaccctatac gatccaacag gcaatcagca gctggcatct 240
 tacctttatc acccttggtta ctgcaacaat catcagccct attacagcag gtacctttga 300
 tgcatttatt ggcacataac atcagggcac aacaactaca acaacttggtg ctagcaaacc 360
 ttgctggcta ctctc 375

<210> 50463
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D10

<400> 50463

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 cgagatgtgg ttttgtgcat ccccagggtta tttttgccag cacaaccag atccagtttt 120
 ctgcagtttt tttggaggct catcagctgt gatcagttag atgtgaaaat gtctcaccaa 180
 gaaccagtat acagtttgta tgtagggaga gaagaaaatg ctcggttttg ttttggtttt 240
 agagctttca gttttttttc ttttcttttc aatcctagtc tttgttggtt gaaggacagg 300
 tctagattt gacatagcct ctttacatcg gttattcttt cc 342

<210> 50464
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-D11

<400> 50464

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 tctccagtct ccaccggcag cgctaatacgt aatagccatg ggctccaccg ccggcgacgt 120
 ggccgcggtg gtggacgagg aggcgtgcat gtacgcgatg cagctggcgt cgctcgtccat 180
 cctgcccattg acgctgaaga acgccatcga gctgggcctg ctggagggtg tgcagaagga 240
 ggccggcgcc ggcaaggcgg cgctggcgcc cgaggagggtg gtggcgcgga tgcccgcgcc 300
 gcccgcgac cccgccgccg cggcgggccat ggtggaccgc atgctccgnc tgctcgctn 360
 ctacgacgtc gtccggtgcc agatggaaga ccgggaccgc cggtacgagc g 411

<210> 50465
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D12

<400> 50465

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 tacgccttag cagggggggcc cagcgccagc gccagcccca gcccagcgc gcgcgtgccg 120
 cgtgccgtcg ctgtgaacgg ccgccgcagc tgttttggat cgagtaataa tattattagt 180
 agtataatgt ttctccaagc agctaagata attgcaagcc ttgctgggtg gtattactag 240
 cactgctatc taagagtatg tactagcagg atgggtttat ctagcttggt gctaaacaga 300
 aaattaatct aagaaaacag agatatggtc tgtaattgc cggctctaac taatggccgg 360
 cgataatctg ttaagctacc tcagattgac catctctatt tcttattata aactcatttt 420
 cctcgtctat tttt 435

<210> 50466
 <211> 425
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D3

<400> 50466

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agggatggca accggtagtg aagcctcgaa ggcagctgag gctgtggttg actggcataa 120

acacgacagc aagaggatgc tccatgcggt ttaccgtgtt ggggatctgg accgcacaat 180

caagtactac acggaatgct ttgggatgaa actgctgagg aaaagggatg ttcttgatga 240

gaagtacacc aatgccttcc ttggcttttg gccagagaac accaactttg cagttgaatt 300

gacatacaac tatggcgttg acaagtatga cattggaacg ggctttgggc atttcgcaat 360

tgctaataatgat gatgtgtaca agttagctga gaatatcaaa tccaagggtg gtaagatcac 420

ccgcg 425

<210> 50467

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D4

<400> 50467

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cagcgcaaga agcgcgactt cgtcaacggg gccgtcggcg cgttcgttgc cggagcctct 180

gtctgcggct acagaggaaa gagtattcag tcagccctca tcggaggctc ctgtctggct 240

ttcacatctg ctgtgctgga cattggcggc aatacgacca gagttgacaa cggcaaagag 300

tactatgcct acacaactga gaagaagcct gcaaattgat tccaagtctg cacttctagc 360

aaacaatctt gcacgccatc aactcagtga atttgaagct gatgtgcagt tttatgtttg 420

ttttgctgat gcaatta 437

<210> 50468

<211> 334

<212> DNA

<213> Zea mays

[illegible]

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aacacaacca	acataaattt	atataaacca	accatacaca	accttccttc	accaaccact	180
ctatatacaa	ctacataact	atcaccattc	acaacaatcc	tattaataaa	ctcctatttc	240
actatcacat	ctcctgcaat	tgccattctt	accaatactc	ctacacatta	catcctcaac	300
atataactat	gcatacaaat	ctcataaata	acct			334

<223> Clone ID: LIB3079-031-Q1-K1-D8

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ttgacaacgt	taaggccaag	atccatgaca	aggttggcat	tccaccaaac	caacagcagg	180
tgatcatctt	cggctagcag	ctagatgaaa	gtcgcaactt	ttctgactac	aacatccata	240
a						241

<223> Clone ID: LIB3079-031-Q1-K1-E1

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caaaactc	68

21617

<213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-E10
 <400> 50471
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 agaacaaatt ctagtcttat gatc 84

<210> 50472
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-E12
 <400> 50472

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 gctgttcgag gccaacctgc gcggcccgtt ccggcgctgc ttctggaagg ggcagatcgc 180
 cggcagcggc tacggcgtgg cgcagttcct gctgtacgcg tntacgcgc tggggctgtg 240
 gtacgcggcg tggctggtga agcacggcgt gtccgacttc tcgcgcacca tccgcgtggt 300
 catggtgctg atggt 315

<210> 50473
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-E2
 <400> 50473

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 ccaccgncag ccgtcgaggc ctgcaccgnc ctctaatac cgnccaggcg tccacctctg 180
 actgccgccc acctncagcc gtcgaggctt ctggtggaaa ctcgtttgct aagatggaaa 240
 gaggcaatga ctactatggt gntaggaaaa gtgatgtggt ggcaagttac aaaactctaa 300

gtgattgccagggtcagatttgctcttcggtatctgggtccgtctgcaagtgcctacaagg360
gtcactcttg370

<210> 50474
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E3

<400> 50474

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taagagcggg gcccattctc gacatggagt gcatcattcg cctgctctcc aataaacaga 180
agaagaagta cgacgtggac aagatccggc ggctcggcag cgtcctctgc aatccacatc 240
cgggtgatgac gtaaaatggg gtgtggcagt agtttctgat ggagtgcac gcgtcaacaa 300
tatggagctt gaaccatata aaccctactg ataatgtgtc accatttcat atgtatatgt 360
actccattca ttaacaaaaa aaagtgtctt atatatc 397

<210> 50475
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C7

<400> 50475

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ccgaaggaga tgagagctgt aacatcctgg gaagacgttt agaacctggg ctgggcagat 180
ctcaaccgat accaggactc tgcagttcgc tcagcataac ttaacaccag caagttcacc 240
acaaaaaac tttctgaaca tacgattatg ttgctgttcc tcccacaaat gtaacttaca 300
aatctaaaaa agaactgtaa gtaaaataac gaaggctcga cacggcatgc ccgtattttc 360
ctatggctgg tgataatatt gaaatccctg aaatggctct atgaaatgaa cc 412

<210> 50476

<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B2

<400> 50476

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ctttgcaacc cgtgctacaa gctttgctga caagagcttc tactcagcaa cccagagag 180
gcatccattc aatccttgcg agaggcagtt tgtgtatggc gctgaagtca ttcttctcca 240
tgatgacctc agcgtcttac acgatgcaac ctgcccattg accttattac ggtaatggct 300
accagttca gtaccaggtc tcgtatatcc actaatggag acagccagggt gcagggtgctc 360
tttcctaaca atctagctta acctgctgct ctttgctgta gtcgtatcag ttac 414

<210> 50477
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B3

<400> 50477

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cccgaacctc gctagcgttc aacctcttta 90

<210> 50478
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B4

<400> 50478

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tgagcatacc atacttcacc aacaaagact caattcaatt gccgcactga cccatctaca 180
ttaactggtg tctcacactg gattacaata ccatattctc ttcatgcgtg agctacctct 240

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<210> 50479
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-031-Q1-K1-B6

<400> 50479

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accctccgca tggtagcccg ccgcagtagc cgcagccgcc gcctccacag cagcagcaga 180
gcagcggggc ttccttcatg gagggatgct tggctgcctt ctgctgctgc tgctnctgg 240
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ctactagctt tctatgcgag ggagagagag agagagctgg aactggattg agcctggaat 360
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<210> 50480
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B7

<400> 50480

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atggcgattg catacatggg agatgatttc atgtatcaat tatttggaag gtacagagac 180
atggccttgg ctgtgaaaaa tccatgccat ctcaatatgg ctgcatgcct gatcaaacta 240
aagagattcg atgaagctat tgcgcagtgt agcattgctt tgacagaaga tgaaagtaat 300
gtcaaagcgc tagtcacgcg aggaaaagct aaatctgaac ttggccagac agaatacagc 360
aggaagatt tctcaaagc gaagaagtac tcccagaag acaaggagat cat 413

<210> 50481
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B8

 <400> 50481

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 aaaatgccat gtgttggcaa cttagattgt tcatgtactg aacctgttga agttctacca 120
 aaatttggtg tcgaacggct gaacagttgt cctaattgta tgctataaac agagcttatt 180
 tcccccgctg ccacgcgtgt atgattgcag tattttttct ctgcctaaat tttatagaca 240
 tattttacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 300
 gagaac 306

<210> 50482
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C10

 <400> 50482

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 ctacggcaaa gactacggcc gcctcgtcgt catcgtcgat gtggctcgacc agaacagggc 180
 acttgtggac gccctgata tggtcaggtg ccagattaac ttcaaacggc tctcacttac 240
 tgacatcaag attgacatca aacgcgttcc caagaagtca accctgatca aggctatgga 300
 ggaagctgat gtgaagacga agtgggaaaa cagctcatgg ggcaagaagc tgattgttca 360
 aaagaggagg gctgcgctca gtgactctga caggttcaag gtcatgctgg caaggatcaa 420
 gaaggggtgt gc 432

<210> 50483
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C11

<400> 50483

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ggcatggtat tgttgatgta cgattcattc gttggaaaac ctggacgtga gtgctggaat 180

tgcaccatct ggcccttttct gtacatgcct gatgtaacgg tgggtgttggtg tttccccacc 240

accacctctc ttttcacgat gatgacgcag tgcattgtata attgtatggg ttaatgacgc 300

agtgcattgcc ttgcggagtg ggccggtaga caaacatttc ggcggctggt cacttggtca 360

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aaaaaaaaa gggcgg 436

<210> 50484

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C12

<400> 50484

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agactatcca catgctttcg ttttgattct atcacgaacc agcaggatgc tcaaagtgcg 180

ataaatgact tgaatgggaa gtgacttcgg aaccactgaa ttactgcaa ttgtgcaacg 240

aaaggtgcta atgctggtca agagaaacag attctgtaca ctaatgttga cctgtccaat 300

ggctcatgag aatctggaca agagaataca catgaagatg gatctgaaaa t 351

<210> 50485

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-C2

<400> 50485

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cccgcgatgt gctactgtat attacacgaa gacaacgtct tgggagctat attcagcctg 120
 gggaaagaga tgagggctgc aacgtcctgn gaggacgttg agaacctggt ctggggagag 180
 ctgaaccggt accaggactc tgcagttcgc tcagcataac taaacaccag caaaaaaaaa 240
 aaaaaaaact ttctgaacat acgtgtatgt tgttggtcct ccgacgaatg taacttccaa 300
 atataaaaaa aaagtgtagg gaaaataacg aaagctcgac acggcatgcc cgtattttcc 360
 tatggctggt gataatattg agatccctga aatggttcta tgaaatgaac cgcagaccgt 420
 tgaaatcggt tc 432

<210> 50486

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C3

<400> 50486

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 cacactactg gatatgcagg attctgaggg gtgtactaag tataccctaa caagggtaaa 180
 ttggacggat tcggttgcag gccaccaca cttgtatggg cctggagagg tatctgcgag 240
 cttgatcagg gagctgagga agtcgaacat gacacactct tacatgttcg cccgcaagtt 300
 ttctcctgag tgccttgagc ctttgatgga gattgcagac tcagtcatcc tacgtgacta 360
 gtctgaagca gacaccattt gacggtcgga gtttgtagac tgaaatgaat g 411

<210> 50487

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C5

<400> 50487

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 gagggaaggc tcccaggaag cagcttgcca ccaaggctgc ccgtaagtct gccccacca 120
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gcaagtatca gaagagcact gagctgctga tc

212

<210> 50488

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C6

<400> 50488

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acccctgagc tgatgcccct cagccatgtc cttgccacca agcttgggtgc tcgtctcacg 180

gaggttcgca agaatggaac ctgaccctgg ctcatgcccc atgggaagac ccaggtgaca 240

gtggagtacc gcaacgaggg tggcgccatg gatcccatcc gtgtgcacac agtcctcatc 300

tctaccagc acgacgagac agtcaccaac gacgagattg ctgctgacct gaaggagcac 360

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<210> 50489

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B11

<400> 50489

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catccaggag atgttcgggc gcgtgagcga gcagttcacc gtcattgtcc gcaggaaggc 180

cttcttgac tggtacacgg tggagggcat ggacgagatg gagttcacgc aggccgagag 240

caacatgaac gacctcgtgt ccgagtacca gcagtaccag gacgccaccg tcgactagga 300

gggcgagtac gatgacgagg aggagggaga tctccaggac tagaataggc tgcttcacat 360

tcagtcaccg ccagtctatg aaaaactaat catttgctgc ttttcgtcgt cgtcgtagta 420

gtagtaggtc 430

<210> 50490
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-H2

 <400> 50490

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 cattacaagg gacctgttga gaactctgac ctaccttatt tgtccctgtg gaacatggtg 180
 ctgtcatgat cgatattttt gtatggccag ctctgtggat tatacatgaa gcatgcctgt 240
 t 241

<210> 50491
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-H4

 <400> 50491

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 tgtgtctggt atctacctga ccgtgcatct atctgatgct ggtcttttaa tagaaaagca 180
 agcttccgtt gaaatttatt gtcaatgatg gcttacgtat aaagggttaa aaaacggcgg 240
 cctttttac 249

<210> 50492
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-H5

 <400> 50492

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aaggctctga gcagtagtgg ctgcgatagc attttcaacc agatcactgc ccctactgaa 120
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 agccagcgtg aggctgcact gaacaagttc cggctaaaga agaaagatag gtgctttgag 240
 aagaaggttc gataccagag ccggaaatta ctctcagagc agcgttcacg ggtcaagggc 300
 cagtttgttc gtcaagatca tagcatccaa tgaagctaag gtccagttac tgagctggaa 360
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<210> 50498

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A12

<400> 50498

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 gtcgactccg gggacgccgc gccagcgtt cccaagtacc gcggcctgct cggaactgcc 180
 gccaccatcg ctagggagga aggggccgca gcgctctgga agggcatcgt cccgggcctc 240
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 tacgtcggca aagaccacgt tggggatgtc cttttgtcca agaagatagc cggcggcttc 360
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<210> 50499

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A2

<400> 50499

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 tggatgcgct gcttgtgacg gtgcttcttc tctactata ctgtaccctc gccgcagcac 180
 aatggtgcgt gtgcaagcag gacgcgttgc aggccgcgct tcagaagacc atcgactacg 240

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acaccgtacc tgcgcactga tgctgtgccg tcaacagcta ctaccagaac aacaaggcca 360
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cgggc 425

<210> 50500
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A3

<400> 50500

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atcccaccaa tccaccagat gctatccaag aaaggactct atacaaccaa actccgactt 180
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<210> 50501
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A4

<400> 50501

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cagtcgtatc atgcatggcg tgcacagga ctggttgatga tagtagcaac gtgatgctcg 180
tgctgtaat aagaacaagc aagcgatgtg tgctgtgat gtaccggtgt cgtcagtgtt 240
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<210> 50502

<211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-A5

 <400> 50502

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 atggttgcac ttgctgctca aaggcatgct gtgccttttg ttgtggttgc tggtagtcac 360
 aagctgtgtc cgttgatatcc acacaatcca aaaagtgttg tgaatgaac 409

<210> 50503
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-A8

 <400> 50503

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<210> 50504
 <211> 382
 <212> DNA
 <213> Zea mays

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 aacacaacag tgtggaagtg ccacacgcgg ctctgtataa ggaacctgat gctgttgctc 300
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 gcaag 365

<210> 50507
 <211> 392
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-F2

<400> 50507

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 taacaagcag ctgctgagc acatggacga gcacaaccac caccagcagc acccgatggg 360
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 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-F6

<400> 50508

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 gaggaggcga gcagggcgag aacccgaggc aggcattgaa gaaacgaatg gcttggtgta 180
 atgatctctg gttgcatgtg gctgcaatcg actgtagttt tcaacttcgca tgcttatctg 240

tatcgctttt agattgtgtt agttgtgtgt atttgacttc ttatatgcga actgaactgt 300
aacaactntc ctttgttggc cggccgcaca tgtacggcat aatcatttat ggattttgct 360
acgtttgagt ttc 373

<210> 50509
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F7

<400> 50509

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caggcatatc gtaaagcact tgataatgca aataaaaactg gtgtggccca tgaggcaata 180
aacaatattc gtagagcaag caaaacaatg accgaacagg aagcgaggca gatactgggt 240
gtctcagaga attcgacgtg tgtagagatc gtacagcgat actataacta gtttgaaaag 300
aaacggctat ctgggatctt ctacctacaa tcgaaag 337

<210> 50510
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F8

<400> 50510

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aaagccaagg ttgctgaagc catggaggtc ctccgctctg cccagcatct ccagcagagc 180
aatgtttcta ctgagcagca gctggctaata ctatcattga atgatggcgt cgtcttcagc 240
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<210> 50511
<211> 387
<212> DNA
<213> Zea mays

The first of these is the fact that the
 CO_2 concentration in the atmosphere
 has increased by about 30% since the
 1950s. This is due to the burning of
 fossil fuels, which releases CO_2 into the
 atmosphere. The second is the fact that
 the temperature of the Earth's surface
 has increased by about 0.5°C since the
 1950s. This is due to the greenhouse
 effect, which is caused by the increase in
 CO_2 concentration. The third is the fact
 that the sea level has risen by about
 10 cm since the 1990s. This is due to
 the melting of glaciers and ice sheets,
 which is caused by the increase in
 temperature.

caattcttgg	tgtccagggc	ttctctgctc	tgcccccgca	ttgtttgcag	ctgtgcta ^{acg}	60
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<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G11

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<213> Zea mays

<400> 50513

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 ggtgacaatt atcgccaagc ctggagtga gttggagatt ccagatggag acgtacttga 180
 gaacaaggat gtcaatggcc ctgaggatct ttaagcaatg tttgtcatca ccagtttttc 240
 ccaaggacat gtcacaggaa ctgccgagcc taatcactcc tactgagctc tatatttttg 300
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<210> 50514
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G2

<400> 50514

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<210> 50515
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-030-Q1-K1-G3

<400> 50515

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 gtctcaagac acgcaagtac acggaggtca agcccgccct gaccaacatg gtctcggcc 180
 ccaagctcat ccgcacccag cttgccagcg cgaaatgaag tcgtttgata gctccatggt 240
 ctgatagcgc ggaatgagcc agttgttttg aataatttgg gtgttacccc ctgttccatg 300

gtgttagtgt taggttagcc tctcattggt gagatacgcc gtttcaagat gtgttctaag 360
 tttggagtgt gtgttntcct ttgggctatg tttctggggg tatgtgtgtg ctttggttat 420
 taacaggaat gaaatatgca gtcttc 446

<210> 50516
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G5

<400> 50516

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 tacactattg tgactgttgt caattcgcaa ctatttggtg acatcaatgt tcttaagtct 120
 gtgccaattc aggtgactga cgatgtaa 148

<210> 50517
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G6

<400> 50517

aaaaaaaa aaataaaaaa aaaaaataaa aaaaaaaaaa aaaattaaaa aaaaaaagga 60
 aaaataaaaa aaaaaaaaag aaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg taa 153

<210> 50518
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G7

<400> 50518

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 atgcccggtc ctcatgtca agaggcccaa ggagtagaag gttcctcgca tgtaacgctg 180

cagcttagcc aataatgttt catggcgacc atataggcat atatgtacac acttcacatc 240
ccattgcatg gcagtgtctt ccctagttca acaactaact ttctgcttga ataaagtgtt 300
caaagtttag acagaatatg tactgtacat actatcttct tgcatttggg act 353

<210> 50519
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G8

<400> 50519

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gtctcccccg ccgcccggcaa gtgggttcgcc gccgctgccg ccgtggccgc cgccgccgcc 120
gccttctact gagagaaggg agatctgcac tgccccgtgc tgtaatttat ttgttatccg 180
tgttgagccg ttgattcctt ctttggtttt cttttcacca ttttttttct tccatccgaa 240
tatccatatt ccattcggca ttcgattcag taggactggc ggcattctgtt cgttcgtgtt 300
gctacagtgt aggaccgtgg ctccgacaga ttgggtgggc tggctcgggtg gtgttgtgct 360
ccggtcatcc atttgtataa taccctgttg agtctctttc g 401

<210> 50520
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G9

<400> 50520

ttccgggcta cgcgtacgct tccgcgcgag cgtgtacgtc gggagctcca taaggtagcg 60
aaggagcaag cggagaggag ggagacggcg aagcaaatgt tggagttggg tcaaaaggcg 120
tacgggaaag gaatgtatgg acgatcaatt gaattcttgg aggctgcgct cactatcata 180
cgtccctcct ctctactcgg tggcgagatc caaatttggc ttgcaatggc atatgaagcc 240
aataggaggc acaaggattg cattgcattg taaaagagt tggagagtag ccaccccatg 300
atcaacatca ggcgccaggc agctgagctt agatacatTT tagaggcacc caagttgaag 360
atatcaaatg acgaggtggg cacaatacca caaattggga gcagcttgga ttggtatgct 420

tgaacatgga gtgaccaaa

439

<210> 50521
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H1

<400> 50521

cggacgcgtg ggctccaagg atggccagac ccgtgaacat gctctccttg cgttcacct 60
tggagtgaag cagatgatgt gctgctgcaa caagatggat gcaaccactc ccaaatactc 120
caaggcacgt tatgaagaga ttgtgaagga agtctcatcc tacctcaaga aagttgggta 180
caaccctgat aagattgcct ttgttcccat ttctggtttt gagggtgaca acatgattga 240
gaggtccacc aaccttgact ggtacaaaag cccaaccctg cttgaggctc ttgaccagat 300
caccgagccc aagaggcctt caaacaagcc cctgcgtctg cccctccaag atgt 354

<210> 50522
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H10

<400> 50522

cctccccttc cggagaagaa tgctgttgag aaattccggt ttagcaagga gttcattgaa 60
ttgcgtcgtc aagctttgga tttatttggt aacaggatag cttcacaccc tgaactcaag 120
caaagtgatg tcttgaggac atttttgcag gcagatgaag agataatgga tagggcaaga 180
tcttatgaga ccggtatfff taagaaacca tcagatffff tacagatggt taaggacgta 240
cagtcaaaag tcagtgatgt tgttctggga aaagaaaagc ccgtggagga atctactcct 300
gaatatgaga agcttaaaag ttacatattt gagctagaaa ttcatttagc agaggcccaa 360
aaacaagc 368

<210> 50523
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F12

<400> 50523

caacaattct ggatgtccag ggcgtgggtt tgaaaaattt cagcaaaact gcacgtgaat 60
taattcagcg actgcagaaa attgacaatg ataactaccc agagactcta taccaaagt 120
ttattgtcaa tgctgggtccg ggtttccggc tactatggaa cactgtgaag tcctttcttg 180
atcccaaaac taccgccaag atacatgttc ttgggaacaa ataccaaagt aagctgcttg 240
aaataattga cgccagtga tggccggaat tccttgggtg cacttgtacc tgcctgaat 300
acggaggctg ccttaaggct gaaaaggac catggaagga cccaaacata cttagatag 360
t 361

<210> 50524

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D2

<400> 50524

catcaacaaa agacgggtca taaatttatg cttccttggt ttgtggctag gcaaagcagt 60
ggtgatatcg gttactaact gtagaatata cgtctgttga gatgtcctag tatgactggc 120
ttcggcgggc agctgatttg tgttttgcc tttgttactt attgccaaat ttatagaggt 180
tgatttgagg tgccaacaat ttatagtaaa aaaaaacca ctgatacat 229

<210> 50525

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D3

<400> 50525

cacgagacct cctgttttgt gtattattac agaattcatg catggaggca gtatttggga 60
cttcctttac aatagacgag gaaattttca actcccggat gtgattagaa ttgcatctga 120
tgtgtccaag ggaatgaatt acttgcata gattaatatt gttcataggg atttgaagtc 180
tgcaaactct cttatggatg atcaggttgt caagggtgca gactttgggg ttccagggtt 240

aaagac

246

<210> 50526

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D5

<400> 50526

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atgtcatcgc agacataagc catttcacgc aggagcttat tgtcgttaat ggggcgaaag 120
cattcgtggt cgccaataac tttcccgttg ggtgtctggc atcatacctta agtaggttcc 180
acagtgcga ccatgaggac tacgatgagc atgggtgcct taagtcgttc aatgagttct 240
ccaaaagca taatgagcaa ctttattctg ccatcggaca aatcagatac tcttaccxaa 300
atgtgaaggc aatctatgct gactactaca actccaccat ggaattcatc aagaagccta 360
gtagatctgg tattggtgac cctttagtag cat 393

<210> 50527

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D6

<400> 50527

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ttgggcgtgc tgctgtcca ccccttcaac gcgtacctgg agcaggagct ggaccgccgc 120
ttccgcctgt accgcttctg ggagacgccc cgcgaggagt tcctccgcgc gcacgcgggc 180
gccgtgcgcg ccgtcgtcgg caacgccagc tacggcgccg acgccgcgct catcgacgcg 240
ctcccgccgc tcgagatcgt tgctccttc tccgtcggca tcgaccgcgt ctacctcgcc 300
aagtgccgcg accgcgggat ccgggtcacc aacacccccg acgtcctcac cgacgacgtc 360
gccg 364

<210> 50528

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D9

<400> 50528

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gcgccgcggc agcaactgct cgccgattgc ggctgctggc ctggccctac tacattcttc 120

tcgtagccgg gtgcttcac tggatgggaa cggggggttg tcacactggc tttttc 176

<210> 50529

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E2

<400> 50529

tgaccactgc ctggaacaca tcagcagcag agacagccca atccagtact tcacaagcgg 60

aggcggttcc aaggcatgga gaggagtgc gaacccacc gaagatgacc tcaagttctt 120

ctacgacggg caaggcttca tgtccctcca gctagaccgt aaccaaacca agttcacctt 180

ttacgatgtc gacgggaagg cgctgtacag ttacacacgg tcgagcctga tggaacaggc 240

cacaacttcc aagcttccgg ttacgtcaac gaggaatgaa gcaggggcga gtcaacatgc 300

accgcttggg aactgagatc gaatcagttc aagcgtacgt attaaatctc gagtgttga 360

tgtggttcat ctgtcaaggg cacattttta aagtagtggt tgtatctttt gtgttgaaat 420

gtacaatgca ttgggagctt aaaaaatggt tgatgaat 458

<210> 50530

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E3

<400> 50530

ttaccactga tctatacaca tcattcttag ttacagacca gttcaatact atactcgggc 60

gggtcaatcc aaaacctggg ggggca 86

<210> 50531

<211> 132
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-E4

 <400> 50531

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 gcgggtaaatt tcaaaacttg ggggcgcatt ctataccaca ccttacaata cccattata 120
 taataccact at 132

<210> 50532
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-E5

 <400> 50532

 ctgcgcgacc gcaccgggat gttcgctgc ccgcacaccg gggtcgcgct cgccgcgctg 60
 ttcaagctca gggagcagcg cgtcatcggg acgaacgacc gcaccgtggt cgtcagcagc 120
 gctcacggcc tcaagttctc gcagtcgaag atcgactacc atgacagcaa gatcgaggac 180
 atggcttgca agtactccaa cccgcctgtg agcgtgaagg ccgactttgg cgccgtcatg 240
 gatgtgctga agaagaggt caagggcaag ctctgagcgc ctgtgcctgg ctaatgcaat 300
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 ctgtctgggt taggtatct gttt 384

<210> 50533
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-E7

 <400> 50533

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 taaaaactca cctctatgaa cgtggatctt actattgctt tgaccagaa tcttgggaca 120
 caatacgcaa ggacaacttt gttctccact atgagatggt agagaaaagg ccagttctgc 180

cttcaacatc accaaacctt agatgaaaag aaaatctagg acggggagag gaacatagaa 240
 acatataacg atctgcagga aggactaagg aggcaggaag tcgcagaaca gaattgggga 300
 tgtccaatta acacccttg taattactaa aactgtgagc gaatgttgcg tttttcttgc 360
 actccccct tcgcctcct aattaaactg cctaattgtc aggattagtt tttctccagc 420
 tttaaaataa caacgcatag attgttttga ttgtc 455

<210> 50534
 <211> 57
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D1

<400> 50534

aataaattat caaaaaaaaa aaaaaattat atattaaaaa aaaaaaaaaa aggacaa 57

<210> 50535
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-E9

<400> 50535

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 ccgctgtcca tcgaggaggt ggaggtagcg ccgccgagg ccatggaggt gcgtatcaag 120
 atcctctaca ccgcgctctg ccacaccgac gtctacttct gggaggccaa ggggcaaacc 180
 ccggtgttcc cgaggatctt aggacacgaa gcgggaggca tcgtggagag cgtcggagag 240
 ggcgtgaccg agctcgcgcc aggcgaccac gtctccccg tggtcaccgg cgagtgcaag 300
 gagtgcgcc actgcaagtc ggaggagagc aacatgtgcg acctnctcag gatcaacgtc 360
 gaccgcggcg tgatgat 377

<210> 50536
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F1

<400> 50536

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ccgagaccga gggaaggacg ggtcatattg tacaatcttg atccagctgc tgagcacttc 120
gactatcctg tagatatgga tatcagagag ctgatttcac tggatgatgt tatggaggag 180
attgggggtg ggccaaatgg cggctctcatc tactgcatgg agcaccttga agacagc 237

<210> 50537

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F11

<400> 50537

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ctcctctctc tctgggtctg gagactgccg gaggagtgat gaccgtcctt atcccagga 120
acaccaccat ccccaaccaag aaggagcagg tgttctccac ctactcggac aaccagcctg 180
gtgtgttgat ccaggtgtac gagggcgaga ggaccggac ccgcgacaac aacctgcttg 240
ggaagttcga gctctccggc atcccaccgg ctccccgtgg tgtccccag atcacggtct 300
gcttcgacat cgacgccaac ggcacacctga acgtgtctgc cgaggacaag acgactgggc 360
agaagaacaa gattaccatc accaacgaca ag 392

<210> 50538

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B12

<400> 50538

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ggatgaagca catgcggtcc ttcgcaaaca tctgcaacgc tggcatcctt cctgaagcag 120
tgtcgaaggt cgctgctcag gcttgacca gcattccttc caacccttg agttctatcc 180
acaagggttt tagcgctaa gaatcataag gtgaggcgaa atatttcagc cgctccaccg 240
caacgaactg gtttacatta ccagtcctca cgggggtcct agttcttgaa ccatatgtga 300

agcagactta taccactatt atagct

326

<210> 50539
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B3

<400> 50539

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aacgccatgg gtggtgaggg ccatcaggcc cattcagctg gctgtagcta cgactgtggt 120
ggtggctgct gcagcagcat ggtcatcgaa tgctccaatg ttaacaactt ttactccatg 180
tcctgcagct gtggctctaa ttgtggtctt ggacgcagca gtggcatggt catcgaatgc 240
tccaaggcca acaacgccat gttcgctagc tctagctcta gttg 284

<210> 50540
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B4

<400> 50540

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gtcgagatgg ccgacgggga ggacgccgcc gacgcgcgcc gccgggccgc catcacagac 120
taccgcaaga agctgctcaa ctgcaggag ctagagtcgc gcgtcggcac cgtgagagaa 180
agccttaaaa ctgcaaagaa ggattttacc aagactgagg acgacttaaa gtctctgcaa 240
aatgtggggc aaataattgg agaagtactc cgacctcttg ataatgaacg cttt 294

<210> 50541
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B6

<400> 50541

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ccattgagag ttagacgggg accttcttat ttcaagctga catcaaccat ctgatcttac 120
tcatcatcaa caccttctac tccaacatcg agatcttcct acacgagctt atctccaact 180
cttacgatgc tctgtacaat atcacgttcg agagtctcac tgactagagc aagctcgatg 240
ctcagtctga gcttttcatc caccttgctc catacaatgc cacgaacact ctctccatca 300
tcgacaacgg cttcagcatg accaagtact accttgctca caacctcggg acca 354

<210> 50542
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B8

<400> 50542

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cgccaagatc ttacagggag tcgagcacgg gttcgctgc aggttcaaca ccaccgaccc 120
tttcgtcgtc aagaccgcag agacggccct cgcctacatg gtcagctggt tcaacaagca 180
cctcaactga atgaagcctg cactgtactc accagactga attcaataaa ccaactgcaat 240
gctgtgatat tacgtgtcga ttcatggctc cccacattga ttcgtcatgg ctaagacctc 300
tactactgga atttccttca ttctttgtct attcaaactc tatgtattac tgcatatgct 360
tggtatgatc gcaataaagc tcattagggg tatacacctc ctggacgctt taaaa 415

<210> 50543
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C1

<400> 50543

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cggatgcggc gctcctgctg ctgctgctga cggcgagtag cgtcggcgct gcacggggcg 120
cgccgcgggt gccggcgggt atcgtgttcg gggactcgac ggtggacacg ggcaacaaca 180
accagatccc caccctgctg cgcgccgact tccgcctta cggtcgcgac atgccggggc 240
ggccgcgcgc caccggccgg ttcggcaacg ggcggctgcc cccggacctc 290

<210> 50544
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-C11

 <400> 50544

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 aagcgccctc cctccggctt cttcgtcttc atgtctgaat tcaggcagga gtaccaggcg 120
 cagcaccctg gcaacaagag cgttgcggcc gtgagcaagg cagcagggga aaagtggcgc 180
 tctatgtcag agcaagagaa gcaaccctat gtggaccaag ctgggcagaa gaagcaggac 240
 tatgagaaga ctaaggcaaa tattgagaag gagagcacia gctcaaagaa ggctaagact 300
 gatgacgacg atggctcgaa gtccgaggtc gatgatgagg atggcggtag tgacgaggat 360
 aacgacgacg acgagtaaatt aggatt 386

<210> 50545
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-C2

 <400> 50545

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 ctcgtttgct cacagctgac tatcaagttg gttaatggtt gtaccgttgt ccgagtgttg 120
 atccacttaa atatattcga atagcatatt tttgtgacat ggcattgtac tggcatgaac 180
 ctttgcaagt catgggatgg aagatcattt tgggtttttg aaaaccttta ctatgtgctt 240
 ctcatgata gcatgttgca caaatgctct gatgtgttgc taccagagaa attag 295

<210> 50546
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-C3

 <400> 50546

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 tgaggaatgt tgaaggatga attggagcag aaaattaagt attggtggtg aggatgttga 180
 aatctgcatg gaaatttcct caaaacctga gagcttcaaa tgttattggc tgcttcacgc 240
 gctctttgtt tttcaacat actgtgactt gtgttttgtt ctaggatgtt gtggctataa 300
 acaagtggag gtttatggag cta 323

<210> 50547
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C4

<400> 50547

cccgtcacgc gaacgccacc gctgccagcg tcggttacct acgctggcct gaggaaccc 59

<210> 50548
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C5

<400> 50548

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 cagctagctg cagcaaaccg tgcttgcttc ttgacacagc aacagttgct ggctttctac 120
 cagcattttg cggctaaccc cgcaacccta ttacaactac tacaattgct gccatctgct 180
 caacttgctt cgacagaccg agcgggctgc taccaacaac acatcattgg tgggtgccctc 240
 tgtagattg cgtattgatt gtaattcaat agta 274

<210> 50549
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C7

<400> 50549

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aagtgcacatca tgcttagata tgctgctcag attaactaat gtacgatata agtactgaca 120
agtaatgaga tagattgcac aaaatcatga acttctttca aattcatctg ttttcttgct 180
ggtatacaaaa gaccaatatg agttatgcac gaaaattcat atgtttctgc ttaaaagaag 240
ggaattcatt tgtgaagtat gttatcttca gacttgcata tgatgattgg tttctcgaat 300
gatgtttcta gggatgctct tatgtgaaat a 331

<210> 50550
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B11

<400> 50550
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cagattgatt agaaggtgta gcttgtatga tttgtacgta taataatgtg ctggatgtat 120
tgtaatacac ggctatgcat attgcaacac ctaccatttg ccgttaccta tcttgagtgc 180
gtcctaaatt gtaattgcag ccaagcagcg aaatgtgtag aactaaagaa ccctgagcgt 240
caaaaaaaaa aaatataaat aaatgaatca aaaaattgat atgataaacg caaaaatatc 300
tactaatgaa atttccataa taagttaaag ggtccaaact tgttggggtt ctaaaat 357

<210> 50551
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C8

<400> 50551
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atccctgaaa agcatcaaaa aggctgttg gaattctact tgtgaagggt gtgagagccc 120
aaaatctgcg gaagaaggat ctgctgggta aatctgaccc atacgtgaaa ctttaagatgt 180
cagatgataa acttgcattc aagaagacaa ctgtaaagcg cagcaatctc aatccagagt 240
ggggtgaaga cttcaagttt gttgtgacag atccagaaaa ccaggctctt gaagttaatg 300

tcttcgactg ggaacagggtt gggaaacatg aaaagatggg aatgaacatg atcctactta 360
gagaact 367

<210> 50552
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H3

<400> 50552

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agcaagttag aacgagcaag agaacttttc catgaagctg tccaacaggc tcctccagag 120
gaaaagaagc ccctatatattt acaatgggca aaactggaag aggactatgg tcttgcaaaa 180
cgtgctatga atgtatatga tgaatctgta agagctgttc ctggcagtga aaaaatggcc 240
atgtatgaaa tctatatagc acgtgctgcc gaactctttg gtgttccaag gacatgacaa 300
atatacgagc aagcaattga atccggccct ccagacaaag atgttctgac aatgtgcatg 360
aagttcgctt agctagagag aacccttggg gaaattgatc gttcgagtgc catctatgtg 420
catgcattc 429

<210> 50553
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H5

<400> 50553

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gttgaacgat ggtggatcga tggagaccaa gaacgatctc tccgccgaca gcggcatgac 120
gatggagacg acgaaccgcg gagcgcagaa gcgccactgg ggacactacg cggacgagag 180
cctgcacacg cgcatgaagg cccacgcgca gctcgactac atctacacgg acgacgccgg 240
cgagcgcgga tactaagcca ccaggatgga gtatgccggg gctgaggaca a 291

<210> 50554
<211> 391

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-H6

 <400> 50554

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 cctggcttta caggttacag acaaaccggt agctgttggt ttcggtgtat cgactccaga 180
 gcatgtgaaa cagatcgtgg gctggggagc gtacggtgtg attgctggca gtgcgattgt 240
 gaggcagttg tgtgaggctg ctactcctga agagggctcg gaaaggctcg aggagtacgc 300
 caggagtatg aaggctgcta tgccgtgagc tgatctcact tctcgtcaca ggcacgtaa 360
 atagaacatg gttttagcaa tattctgggc a 391

<210> 50555
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-H9

 <400> 50555

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 attgttgaag aatttatcag acaggatagt aagaatgcc agagacataa tgggtggcgaa 120
 gtgaatgacc atgtatcagc tcctagtga tcaatgatta cagtggcaaa gattgttgat 180
 gggatatctgg cagaggttgc gaaggacca aatataccgg tctacaagtt tttcagtctc 240
 gctgagacag tctcggccaa ttcaaggcca gtccatgacg ggctctatcg cgccattgat 300
 atgtatctga aagagcacc aagcttgggc aagagcgaca agaagaggct ctgtgccctc 360
 atggactgca ngaagttgtc gcccgatgca tgcgc 395

<210> 50556
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-A10

<400> 50556

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tctctaccta gctctagcta gccttcctgt agcgcggcag agatggctgc ccctgcctcc 120

accacggcgg cggcggcggc agcgctgctg ctgctgctcc tcctgtcgtc cgccgcggca 180

gcggacatgt cgatcgtgtc ctacggggag cgcagcgacg aggaggcgcg gcggatgtac 240

gcggagtgga tggcgggcgca cggccggacc tacaacgccg tcggcgaaga agagccgcgg 300

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ggcg 364

<210> 50557

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A12

<400> 50557

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atccatgttg ggatccagca taaggacact aaggaagact ccatgaagtg gttccaggtc 120

aagttccagg gtgtgatcct caacaaggcc taatccaaca cctcctaagc ataagcatta 180

ccataagata ttagactctt taggtctcta gtagagctac tagttaatgg agtatatctg 240

gcagtaggat gtgtattaga agataatcag atgcgtcatc attgttgctt gtactgggtc 300

tactggaact agttggatcc atgttgtaga gagtgtcgaa tacattgatg ttactactga 360

gctacc 366

<210> 50558

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A5

<400> 50558

gttgactac atgcttcttc tagcattctt tgttgctcat gcacgcacaa caggtgggct 60

gacctaagag gacagcaatg ctaggaacat gactatgacc aagaccaggt cattgggcga 120

catacttgtc agccagattg acgacggggcc atgctatata gattacggtc ttaatgagta 180
 cgtgtgcata aagactaata agtgctataa gatctacatg ctcttcggtg cgagtagtca 240
 acgatcatga tgaatccatt atacttcgga gacataatta tactgccgag acagactggt 300
 agagatgacg ctagttagat gctgggttcac taaaatatta tgtaaca 347

<210> 50559

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-030-Q1-K1-A6

<400> 50559

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 cgtctttcttc gacatgaccg tcggcgggcg cccggcgggc cggatcgtga tggagctgta 120
 cgccaacgag gtgccaaga ccgcgagaa cttccgcgcg ctgtgcacgg gcgagaaggg 180
 cgtgggcaag tccgggaagc cgctccacta caagggctcc accttccacc gcgtcatccc 240
 cgagttcatg tgccagggcg gcgacttcac ccgcggaac ggcaccggcg gcgagtccat 300
 ctacggcgag aagttcccg acgagaagtt cgtgcgcaag cacaccgncc ccggtgtgct 360
 ctccatggcc aacgccgggc ccaacaccaa c 391

<210> 50560

<211> 355

<212> DNA

<213> Zea mays

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<400> 50560

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 gattcggaat ttagcgcaag aagtcagaga tttgacattg tcaaagccca ttaccatact 120
 gaatggcaaa tctgactcgg gaggcagttt atcatcctac atactgccag cagcagcagt 180
 tggagcaatg ggttattgct acatgtggtg gaagggggtg tctctctcag atgtcatgtg 240
 tgtcacaaaa cacaacatgg caaatgctgt tcagagcatg tcaaagcagt tggagcaagt 300

agccatcatc atgtacgtcg ctgagactgt tgtcctcaag gttgctatgt catgcgaggg 180
 ttgcgtctgg gcggtcagaa gagtgtcttt caagatggaa ggagttgaaa ccttcgacat 240
 atacctcaac gagcagtacg agacagtcaa aggcaatgtc tagcctgagg acgtctttca 300
 tacggtctcc aagt 314

<210> 50564

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F12

<400> 50564

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 cgctgccgac gggggcgcgc gtggccctgc tgctgtctct gctggccacg acggcgacgg 120
 aggccgcgaa cccgtgcaac cgggcgcagc tgacgccgtg cgcggggccg gcgctgttcg 180
 gcggcgcggt gccgccggcg tgctgcgcgc agctgcgggc gcagcagggg tgctgtgcg 240
 ggtacgcgcg cagccccaac tacgggagct acatccgcag cccaacgcg gcgaggctct 300
 tcgccatctg caacctgccc atgccgcgct tgccgtatta gcgggcaata gtatatata 359

<210> 50565

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F5

<400> 50565

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 ccgtaggagt gacgattcca tggcggacga gatggcgagc gcgcaaccga gactcacggc 120
 gccacgttcg gtccgctgta ttgtcaagct aggtggagcg gcgattacca acaagggcga 180
 gctggagagc atcaacgagg agaacctacg gtcggcatgt gcgcagctgc ggcattgcat 240
 gtccgaatct gacggcgatg gcgccatgga gaaggttctg ggaatggact ggagtaggaa 300
 gcccggagat cctgtcgacc cgcccggtga cgcggagtgg atcgcgggga tagctagggc 360
 tgggctcgac actaa 375

<210> 50566
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F6

<400> 50566

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 gtgggagggg aagctcatgc gtgacttcgg ttcccctgtc tggaggggtg cgtggtcctt 180
 gactggcaac atattatgca tagctgctgg cgagaacaac ataaccctct ggaaggaagg 240
 gtcagatggg cagtgtgagg aggcgatgaa ggttgaacca tacgatgacc ggcaagggtt 300
 ctgaatttct tgtagatcca tgtttcgaca cggacaaagc ttgctactgc tttactagt 360
 tttcgacaaa gcttaagttt gccattgtgt tttactagt tttactgc 408

<210> 50567
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-F9

<400> 50567

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 tgtgggcggc tagataagat ttgttaggac acttggcaca cctagcgaga agatttgccc 120
 tggctatgct aaattaccag gcgtgaaagt aaattttgtc aaacaaccgt ataataggct 180
 aagggataag ttcccagctg catctttttc tgggcgacca atcctgtctg aagctgggtt 240
 tgatctattg aatagactgc taacttatga tcctgataag cgcataatcag cagacgatgc 300
 tctgaaacac anatggttct ctgaagtttc tctgcctaaa tcaaaagact tcatgccaac 360
 atttcctgct cttaatgaac ttgacaggcg taccaaactg tatctg 406

<210> 50568
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G1

<400> 50568

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agtcattgtac aacgagaact gcaccgaact gctgaaccgc atgtagtggg ccgtgggtcta 120
cgtcaagatg cggtctctttg acggactgca cgacgtgctc cggtagcagc tcttcgaggg 180
gtcaccgcac gcctagaacg cttactgctc cttctccaac gtgcgccagt ggatcatact 240
cccaattgca tatgcttatt agtatatagt acaagctcca gtcccaattc tccttctgtg 300
ctcctaccac caccgagctt gcatgccgct catgtcacgg tcgacaacct gaatgtgcat 360
ctgatattgc gaacatggca gcttggccgt tggatttgtg ctatggtgat gtatggaatg 420
attaaggcgg ttgtctttgt gca 443

<210> 50569

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G10

<400> 50569

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gagagggtgcc tgctgctgtt tgttgagtaa attaaaagtt ttaaagttat acagtgatgc 120
acattccagt gccagtgta ttcccttttt acagtctgta tattagcgac aaaggacata 180
ttggtttagga gtttgattct tttgtagcaa tgtgtccgc cccccactg ttgttgtaaa 240
atccgccccat tcgcccagaa ccgcggtggg cggcgtgct agctttgtga tcatatagaa 300
aacgacttgg ttgtttttgg acattttgaa ttgaaagaaa ga 342

<210> 50570

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G11

<400> 50570

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gactgtacag gcagcagggg ttcttacaat actctaagct gtgacaaact tgtttggcaa 120
ctcatgcttg caccagtggc ttatgacca cttttctgag atcattgatt ctgtgtcaaa 180
cttcaagtct tcttttagca agaatgcaca attggcatat gtcacgcttc tactgaacta 240
ctctgctctt tccattgaat caaatgaaga acat 274

<210> 50571
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G12

<400> 50571

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gccgggctac cgcttctcct catcatgggg gtcattgtgc tggggctttt cacggtcatc 180
ggcatattct acagtgtcct ggtcgcgacc atggttggcc agcggatctg gcagcgccac 240
taccacattc ttgccaaacg gttgctaacc aaggagtatg ttgtagagga cgtcgatggc 300
gagcgcacag actggtgt 318

<210> 50572
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G2

<400> 50572

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gggataaaca acaaaaacgt gaagaaaaat aaaaaaaca aaataataaa tcataacacc 120
aggccaacaa aaaactatat aaaaggcact acaaaacctg 160

<210> 50573
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-G3

<400> 50573

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aagttcctca tgctttggat ttggggataa catacctgtt ttatttacat gctaataattt 180
ggaccaacaa aaaatacctt aggaacagcc atttgagaaa aaaacaaagc ctttttagtcc 240
taagcaagtt agcatagctt agagttgcaa cttctacatg agcacaataa acagaaaaga 300
aagagaaaag gaaaataaat atatatggca ccaaagcta ttaccatgtt ataataataa 360
tntaatgacc gaattataaa cattnttaca atcttagcan acctctcaac gtgtagtctg 420
aatcgacaga acatcagtag agtaattttt gtt 453

<210> 50574

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G5

<400> 50574

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atagatcgac gacacgcgcg cgatccaggt gaggagcgaa agacacggtg gccttttcga 120
atccgacgga cggcgcgtag cgctagctag ctctctaggc ctgagaggag gatcgtggga 180
cgaggatcat atacggactt ctagtgcact gctgtcacag tggtagctac ggtggcttcg 240
ctgcctcagc agttgaatgt gctgatctac gacacgctgt gctcgacggt cgcgatcatg 300
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<210> 50575

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-G8

<400> 50575

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 gcgttgctta tacgaaggat ctaccccacc tgaaggtttt cccaacaact ggagcggcgc 180
 gtcgtactgt acgtcggatc tgtccatcca caaaaacggc gaagtacata tctgggacaa 240
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 gcctgctccc aaatccaaat atgacgacat gttctcgccg ttaaatttct cggctccttt 360
 gtcgctagag aagaagctgg ataaaacata tgtaattgat gaccagtang gcctgcccta 420
 aatttttggt cataggaatg gaat 444

<210> 50576
 <211> 76
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-029-Q1-K1-G9
 <400> 50576

aaaaaaaaa aaaaataaaa aaaaaattta aattaaaaaa aaaaaaaaat aaaaataagg 60
 aaaaggacaa aaaaaa 76

<210> 50577
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-029-Q1-K1-F11
 <400> 50577

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 gttgagccct actttttcct ctttgtgagg acaaaccgtt ttatacttgg tcgtgttgag 180
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 ttctggcttt tggtcatttg agtgagtttc tcttcttctt cttcttcctc tttctgctta 300
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<210> 50578
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-H1

 <400> 50578

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 ctgcgacttc gggtaaaatt caccggactg tccggagtgc accggactgt ccggtgagcc 180
 aactgtctgt caggccaact gacggacggg tgatctgcgc gcgacacgtg gccatgccaa 240
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 gcaacggtcg ggaa 314

<210> 50579
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D5

 <400> 50579

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 tctcctgcga gacagctaatt gccttctgtt aatgtaccta cgctactaag tctgccggat 180
 tatggatact gcgtgcatac gtctcatgtg taactaagaa tgtcgtgctt tgaggcgctc 240
 gcaactgctg tgccatagatt tatctttatg gatgtcaagt aacatcatgt accattgaca 300
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<210> 50580
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D6

 <400> 50580

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 aggccgggct gcagtttccc gtcggccgca tcgggcggta cctgaagaag ggccggtacg 240
 cgcagcgcgt cggcacgggc gccccgtct acctggccgc cgtcctcgag tacctggccg 300
 ccgaggtgct ggagctggcc ggcaacgctg ccaaggacaa caagaagacc cgcacatcc 360
 cgcgccacgt gtccttgcc atccgcaacg acgaggagct cgg 403

<210> 50581

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D7

<400> 50581

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 gtcgtgtcca ccgaggcgtg gctgggcggg gtgcgctggg acggcctgcg cgcgttcctg 180
 gacgcggagc gcgccgtgtg gcggacggcc gcggagggcg gggagctcgc gggctacgtg 240
 cagcggtcgg gctcgtgac gcacgtggtg gtgtacgccg cggggcacct agtgccggcg 300
 gacaacgggc gcgcggcgca tgagatgac gagggatggg tgctggggac agggatgttc 360
 ggccgcgggt gtggtgatcg tggctgctac tgcttcagga gcgccgccac atgatg 416

<210> 50582

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D8

<400> 50582

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 cgagctctcc gtgctctgcg acgccgaagt cgcgctcadc gtcttctcca accgcggcaa 120
 gctatacgag ttctgtagcg gaccgagcat caccagaaca cttgagaggt acgaaaaaaaa 180
 cagttatgca ggcccagata ctgctgtaca gaacaaagag aacgagttag tccagaacag 240

ccgcaatgag taccttaaac tgaaagcaaa ggtggataat ttacagagga ctcagaggaa 300
 tttgcttggg gaagatctgg gttcacttgg tgtcaaagag cttgatcagc ttgagaagca 360
 aattgattca tccttaagtc acataagatc cacaaggaca cagcatatgc ttgatcagtt 420
 aactgatctt agaagaagta gcaaattg 447

<210> 50583
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E1

<400> 50583

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 tgaatcagaa ggaaactttg tgcaaccaac aattgtggaa attacacctt ctgcaccagt 180
 tgtgaaagaa gaactctttg gtcctgtcct ttatgttatg aaatttcagt ccttgaaaga 240
 agcaattgaa atcaataact ctgttcctca aggattgagc agttctatat ttacaaagag 300
 gccagatatt atttttaagt ggctcgggcc ccatggtagt gattgtggta tagtgaatgt 360
 gaacatacct actaatggtg cttgaattgg gtgaacattt tgtggagaaa aacaacttgt 420
 ggtg 424

<210> 50584
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E12

<400> 50584

tacgcccacg cgtccgacca cgcgtccgct tgaaaccagc tgtgacgggc gtcttagtgg 60
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 atatggcaag gcaaattgct acagccaatg gccctactgg ctataatagg gattacctgt 180
 tctcaatgga gaaggcatta gccagcatta gccacgaaga tgattcgatc atagagcttg 240
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cttccatgaa atcacatgcc cctcttgtgc acct

334

<210> 50585
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E2

<400> 50585

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cgacacaggc tgtggcacag gctatgcacc atgagattca ccgtgattct caatctaattg 180
tgacacatat ggagcatcat atgcatcggc ctggggatgg gcaatgggac cctgacggac 240
acattgcgcg acatcttat 259

<210> 50586
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-029-Q1-K1-E3

<400> 50586

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tacatthttcc agtctatctt tgtcaaaagt ttagaggagg ttgaccttg tgaggatggt 120
acagatgaag atatccgcat ggctattcaa aatgcaactg gtcctagaag tgctctgttt 180
gtacctgaag ttccatttga agtccttgta cgtaggcaga tcagcagatt gcttgatcca 240
agtcttcagt gtgcacaatt catatatgat gaacttgtaa agatgagcca tcgctgcctt 300
gcaatggagt tgcagcagtt tcctatactc cgcagaagca tggatgaagt cattgggaag 360
ttttgcggga tggacttaaa ccagcagaaa atatgatagc acacattatt gagatggaag 420
aagattacat aaacacgtna caccca 446

<210> 50587
<211> 441
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-E5

<400> 50587

aaagaaagcc aaccgcccc aatctcgctc ccgccggcgg ccaccaccac caccgtcatg 60

atcagcatcc tcgcgagga gcgcctctc gggttcgccc tgggctccgt ctctatggga 120

ggtttcgtcc tccaccagcg ccgcgccatc taccgtcaa tcgctgaagc cgatgggtcg 180

tcctacttct accagcctgg tgaaattgcc ggtcgtagaa gttcaactga actgggtcat 240

gtatggaaca aggcgggtgga cgagactctt gggaaacttg ttgtgtacct tagctctcgt 300

ggatggtgat ccaagcacca tgtcgaacat ggcaactgan gaggcacggg tggaggaaga 360

actctttttg aagccactga tgtgctcata tttctctgta tccggattga acatgttttg 420

gtttaaaaga aaagatgctc c 441

<210> 50588

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-E6

<400> 50588

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aagcgaaagg gggaactaga gcaagatggg cggcgaaactg ctgcttgccg tcctcctcgt 120

ctctgctgct gccgcccctc aggtacttgg agttggcaat ggagacaatc acatgagaat 180

catccaggag gacatcattg agacagtcaa caaccatccc agtgctgggt ggacagcctc 240

acgtaatcct tactttttcaa actataccat tgcgcaattt aagcacatac ttggagtga 300

accagcacca cagaatgcac taagcaatgt tcctgtcaaa acttattcaa gatcactgga 360

acttcacaaa gagnttgacg ctagatctgc atgggtcccgt tgcagcacia ttgggaacat 420

acttgatc 428

<210> 50589

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-01-K1-E8

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ggtgccaaagt	gggaagagcc	tgacacaatg	gcaaaatgca	ctgttgatgg	caatctcatc	120
acagcagcga	cttataattc	tcatcccgaa	ttcatcagcc	tatttgtcaa	agcactcgga	180
ggttcagtgg	caggctcaga	taagagaata	ctgttcctat	gtggggacta	catggaggat	240
tatgaggtca	tggtcccat	ccaggctctc	caagctcttg	gctgccatgt	cgatgccgtt	300
tgccccgaca	agggagctgg	ggagacgtgc	ccgacagcca	ttcatgattt	cgaaggtgac	360
cagacctaca	gcgagaagcc	tggccacgat	tttactctga	caagcgtcgt	tggaagtgtg	420
gatgc						425

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F1

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gctagctagg	tggtcctcga	acgaagatgt	tggcgggtgt	cagcgggcag	gtggtggagg	120
tgccggcgga	gctggtggcg	gcgggcagcc	ggacgccgtc	gccaagacg	aaggcgctcg	180
agctggtggg	gcgcttctctg	gccgtctccg	agccggccgt	gttcgtgcag	ctcggcgacc	240
acggccacct	agcctactcc	cacaccaacc	aggcgctcct	ccgccccagg	tcgttcgcgg	300
ccaatgacga	tgtgttctgc	cttgctcgagg	tggtgctgga	caacctgggt	cgtctg	356

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F10

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 agagggggatt ccaagatgcc gagggccacc agcgacgcga agctcctgat ccagtccttc 120
 ggcaaggcgt acgctgccac accaacaat ctcaagatta ttgacctcta cgtggggttt 180
 gcggttgcca ctgcccttat tcaggttgct tacatgggat tggttgggtc gtttcccttc 240
 aactccttcc tctcaggagt tctttcatgc ataggaactg cagttcttgc tgtttgcttc 300
 cgcattcaag tgaacaaaga caacaaagaa ttc 333

<210> 50592
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D4

<400> 50592

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 ct 122

<210> 50593
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B8

<400> 50593

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 ttcaatttcc gctggaccg ccgcagctc gccgtcgtcg gcctcttcgg cctcgtgttc 180
 cccatcctcg tctacaaggg catcgtccgc gaattcgacg aggatgcagg ccggccatac 240
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 gcgaggaggg gagtttccat tcagtttggt tcggtattgt tttagtctga atctgatgga 360
 gcagtttgga atgctgaact attgtgcctg atccaaatga ataagggtgta atgactcgtc 420
 ttttcaatta ctgaaactga acatgttt 448

<210> 50594
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C10

 <400> 50594

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 ttgtgtgtcg cgttcagttt ggcttttgcc aagcagtagg atagctgccc gtgtcagtaa 180
 ttatatggta tgaaccatca gcttttggct atacatggta tgaacgtaag atacaaattc 240
 caactaa 247

<210> 50595
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C11

 <400> 50595

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 aggccttacc cttgtcggcg gccttaaccc tggcgtgccc aaagcaacaa cgcctattgc 120
 cggagccccg gcgcttttgt acctgccccg ctaccctgtct gccccgtcgg cccatgggct 180
 ctgcaagggt ctgggatatg aaccaacatc ttaccttagt ggaccacaag ttttacctcg 240
 ttggttttcc tctctagcat tcaatggatc 270

<210> 50596
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C3

 <400> 50596

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 cgcttcgcc ttcgccacca cgctcaccgg gttccacttc accgtcacgg cgctcgtcgg 120

gtggatctcc aacgccaccg gctactccgt ctccaagcac gtcccgtctt gggagctcgt 180
ctggttctcg ctcgctcgca acacctccat caccgggatg aacctcagcc tcatgctcaa 240
ctccgtcgga ttctaccaga tctccaaact gagcatgatt ccggtggtct gcctcatgga 300
atgggtgctc aacagcaagc actacaccac taaggtcata tccgcagtca tcgtcgt 357

<210> 50597
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-029-Q1-K1-C4

<400> 50597

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gtcatcactc ctgggactca cggcgttgct acgtctatat gcctntcacg gccgcgtnga 120
gctcgtggct gtgccgacgt agcgactcag tccagcgagg cgcattccga tgtgctgtga 180
tgctggcaac agcctacaag gatgactgca ctgctcgcaa gcaccgtgcc tgctgtgaac 240
agctctgtct cggagcgctc ttcgtcagcc aacacctgac tcaccgggat gaaccttagg 300
ctgatgctca acttcgtcgg attctaccag atctgcaaac tgagcatgat tccggtggtc 360
tgtctcatgg catgggtgct caacagcaag cactacacca ctaagggtcat atccgcagtc 420
atcgctcgtg ccgacggtg 439

<210> 50598
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C5

<400> 50598

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attgtctcca tcggcatcgg ctcatccag ggggccaaca tcatggtggg cggctccttc 120
tacggagctt tcattaaccg ctgcttgctc ttctgccgag acgttgctcag atgggagtg 180
ggctaccagt gggcgactg ctttggaaca ctcatcgcg gctgactgga cgacgttatc 240
taccagctgc tactcatctg ccacaccac gagcagcatc cctgcagcga ctactaaaag 300

ccgcagccga ccg

313

<210> 50599
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C6

<400> 50599

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catcaggaca tgctcgaggc acacctccgg catccaaatc caagcaaaaag agaaaatcag 120
gtgttgatga tgcaaaaact tctagtgggtg cagcttcaaa gaaagcaaaag gtggaattgg 180
atgcgaaaagc atcaggcctc aaagaggagg catcatcttt ggcaaaacct gcatcaaaga 240
cctctgctgc atcaaaaagt gggacaagcg tatcacctgt cacagaggat gaaatcagga 300
gtgttcttct tgcagtgggt ccagtcacca cacaagatct ggtatccaga ttcaagtcta 360
ggcttcgagg tgcagaagac aagaatgcat ttgctgaaat tctgaagaaa att 413

<210> 50600
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C8

<400> 50600

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aggctcgtgaa gaacaagaag taccttgagc ttgctgtgcc agatgagggt gccagaccc 180
tgctggttca agccatcgag gcttttggca gcaagtgcaa ccccgaggcg ctgaaggagg 240
tcccagttgt cctgaaagcc ctgtacgacg gagatatcct ggaggaggaa accgttgtgg 300
actggtacaa cgctgctgtc gcagctggaa aggactccca ggtcgtcaag aatgccaaagc 360
cgtttgcga gtggc 375

<210> 50601
<211> 396

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C9

<400> 50601

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ttgcgcccc ccaacacctc cttcgactcc tacaagttcg acttcggcat caactcctcc 180
cgctcctccg gctctcgccc cctccgcgac cagcggccgg gcgcggctac caaccctcca 240
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accaccagc cttcctccgc cggggcgtct gcgccacca tggctgggccc tggatccggg 360
ccaaccttca tggctcgga catcttttgc ctgagc 396

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<210> 50602
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D1

<400> 50602

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cgcacgtca ggatccacat cttcccgagc gagttctcgg acgacctata gctattggga 60
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cttgacattc agatgccaac tgccttcgat cccttcgttg aggccaatgc tcgcgactct 180
ggtgccgccg caccgtcaaa cgactacgta cacgtgcgca ttcagcagcg taatggtcgc 240
aagagcctga ccaccgttca tggattgcag aacgagttca gctacagcaa gatcctcaaa 300
gatctcaaga acgagttctg ctgcaatggt 330

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<210> 50603
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D10

<400> 50603

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ccgtgatctc taattctcac tatctcgagt taataacgga agcttgatca tcttgccctg 60

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<210> 50606
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-B6

<400> 50606

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agggagaaaa aaaaagagggt gttattgtag gtgttactaa tgttgtagct gttgtgcagt 180
tgtaaataccc ccttcggcag ctggttttat ttctgatgt aatgtaagca agagcaaggt 240
cctgtcagat gcgtgcgctg aaagtctgaa cctccgataa tatctgatgc ttcttgtaga 300
tagctgtttc agaattttcg gttaatgaac ccagttactg cttgcttggt gatctatttt 360
ctgtgttgct atctgatggg atngttgtgg tgaaaa 396

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<210> 50607
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D2

<400> 50607

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cgacgactac ggctacggct acgccgacga ggacctcggc ctcatctcca agaaaggcaa 60
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cgagtaggcc tcgccgctc ggctcgccc cccggtccc tcgatcgcca gcaagaacca 180
acaagccctt ctgtctgttt aattccagta tcagttcgat tctcatgttg aataatcatg 240
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cacagcacag agccactggg cgatcgacgg gccgtgcatg gcctgtagat accatctcat 360
atgttcacca ctgctacttt gctcatgttg ggggcctctc ctgaactggg ttcttgatg 420
aacttgattt ctattagttt tccgg 445

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<210> 50608

<211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D3

 <400> 50608

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 agaagggtta ctttgctctc aacgattact ttcacttcgt tgaccaagaa catgtgcagc 120
 ctgcgccagt gattgctcag gaagactacg agagcaattt ggcacccaac acagttgttg 180
 agaccgctcc tgagtacgtt cactgaggaag aagctcaaca aatagcacct gaagtacatg 240
 atgtggtcga aaactatact tattctgagc cacaacagca agtagtgtct gacaactggg 300
 gagaggagcc tctttctgaa gaaccggctt ctttctcaaa tgaaatggca gtcgctcctg 360
 aggagccagt tc 372

<210> 50609
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A1

 <400> 50609

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 aatgctcaca agctgtctata gcttaccttc ttaccctgta cctctcacca acggtgtcta 180
 ccgtatgtga aaaccaatt cttcaaccct acaagatcca acaggcaatc gcatgtctggc 240
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 ttggagcatt tattggcaca gaacatcacg gcacaacaac tacgacaact tgtgcta 357

<210> 50610
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A11

 <400> 50610

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 caaaagtctg agctgtcttt agtagtggca gtggaaaggt ggccggatgc atgattacaa 180
 caggaaaagt tgttcaagat tgtaatgtgc gggttcttcg taaagggaaa gaagtatatg 240
 tgggttcgct tgattccttg agaaggggtga aagaaactgt gaaggaagtt ggtgctgggc 300
 tagagtgtgg tattggggta gatgacttcc atgaatggga tgaaagtgac atcatagagg 360
 cattcaatac cgtgaataag ctgaatggtg agctgaaact attgtgctga aac 413

<210> 50611
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A12

<400> 50611

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 tgtttgctca agttgcaaga tggataagag gaccaaggtt gcagtttgtg ttgctgctgc 180
 acataactta ctgtcaatga tggccgtgat tattgctct agaaaaagaa aacgaaatgc 240
 aaggagcgca cagattacct atgcaccatt gcatgtgagt ggtacaggct gggatgaaga 300
 taattttggt attactctgg atgaagagca ctataatggt tat 343

<210> 50612
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A3

<400> 50612

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attgtcactg cccctcttgg gctgcatgag cttatggtgg tatgtgcttg tgagttccct 60
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tgtcgtatct gcatagtgat tatttttaag gtctaagggc atttaagtac tgtatactgt 360
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agcaatttt 429

<210> 50618
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-029-Q1-K1-B10
<400> 50618

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taaaagtga acaatcacac tagatatatg tacctctatt atgcctgtcg tcaccaatct 180
tctggacagc aaaatagaca gacactcaat catcgcatcg gaatcggtcg tgaagcttgt 240
aacgacttca tgtccaatga tacatacaac agtatcgaca ggtccttgtg ttggactaga 300
ccttgatgca gaacatacga cgcagcgctg caacttatgc ttcacgaat tggagaaagc 360
caaaaataat ctt 373

<210> 50619
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-029-Q1-K1-B11
<400> 50619

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ggcgccatag accagcggca cgatggaggt ccgcaccgac atgtacaaca ccaacctgga 120

cggcaccaag gactacctat ctgtcggcat ggcctccgtc ccggcgatct acgcctactt 180
 cgccgtctgc tatgtcgtgt tcttggccgg atggctctac gtcaccctct accgcaaccg 240
 actgtccgcg cagcgcgatgc accacctcat gtcgggacctg ctcggttgcgc ggatgctcta 300
 ctgcatctcg gcggccgacg accagcacta cattcgcacc gtcgggacac cgcacgggtg 360
 ggaca 365

<210> 50620
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-B12

<400> 50620

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 tggtaggggt cgacgagagc gagcacagct tctacgcgtc gcagtgggca ctgcagcact 180
 tcttcccgcc gggccagccg cagcagtacc gcctcgtcgt cgtcaccgcc aagcccaccg 240
 ccgcctccgc cgtcggcctc gccggcccag gcgcccgga tgtgctgccg tacgtggagg 300
 cggatctcaa gcgctccgnc ctgcgcgtcg tcgaaaaagc caaaggcctc tgcacacagg 360
 cgagcgacgc tgtgtttgag gccctctgag gggaccct 398

<210> 50621
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B2

<400> 50621

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 ctgctggta tcgggcacca gaagtattgc tccagtcac tgcttatgat tctgcagttg 120
 atatgtgggc aatgggtgcc ataattggctg agttgttgac actccatcct ctctttcctg 180
 gaactagtga agctgatgag attcacaaga tatgcaatgt catcggtagt ccagatgagc 240

ctctgtaccg tgagtctgag cctatccagg agaactacct tgggtgtgaga aatgcagcac 420
agaggaggct actggatgag ctgg 444

<210> 50624
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F5

<400> 50624

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ttcttttagtt cttcccagtt tgtgagttgt gacatctagt catctatagg tttataggct 120
ggacgatatg ggggtgagaga ttgtgcggtgc ccatcttttg tcgggcttgg gcaaagatat 180
gtcgagatgt ttactttctc tgtagaattt cgtgaagctg ttgcattggt cgtttgaaga 240
tggcgacgat gttcagatga tgcttcatgt tgaaggacat atctttatatt gcttcattgt 300
accagattt tatttgcttc atgttgaacg acagact 337

<210> 50625
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F8

<400> 50625

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aggcggcccc cgcggcacag gagacggccg tgcacatcgt gtacgttgac cgccccgagg 120
acgccgaccc tgaggagtgc cacatccgca ccctacccc cgtcctcggc agcgaacaga 180
aggccaggga cgcagtgtc taccactaca agaacgccgc cagcggcttc tccgcgaagc 240
tcacccccca gcaggtcaag gatctcaagg agcaaccagg tggtctccag gttgtgccga 300
gccagactta ccagctacat ggtcctgggt ctggcactca ccagggcacg acacaca 357

<210> 50626
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G5

<400> 50626

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catctgctca gcctgagctg tcattcccgc gaagcgccgt ctcccggatc tattgatgga 120
ccgagtcgcc gacctggctg tagcgctcct cgtgctcttc ttggctcgtcg gggccacgga 180
gcacgccccg gtcttgctgc ccaagcgcac tacagcgcca gcgctacaca ggac 234

<210> 50627

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G6

<400> 50627

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ttgcttgctt gtgctgctat aaaatcccgt ggaagatctc taattgaaag gaagggatac 120
tgtgaagagg cactggggct cttcactgac ttgattcacc tggatccatc tcataagcag 180
tactatgagg atgaacggag cttagccctg atggataagt taacatgtga catggagact 240
ttcacgaagc attgttctgt tcaggttcaa ccaaattcag ctcccctgca tcatgtgcag 300
tttcgcagat tgtctgtaac acgcatcgga tttgctgagc gcctgttggtg ggttcaaagt 360

<210> 50628

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G7

<400> 50628

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attgcaggag tcatacaaaa acttcaagat gggtcagatt aagaaagacc agttcatcca 120
gttccttcgc aattacgtcg gagaccaagt gctgaaaacc gtggccaaga aacttcgacg 180
atgctaaatt tctagtgcgc ggtgcgacat cattatctcc ttgatttcta ctcgagctgt 240
ctgtagtagt gctcagtaga gatgaggagg ttcacttctg tttctgttga ttcaagtttc 300

tgcaagggc ttatagggg tttggcgcg tgttcttaca ttaaccaaca gtgcaacaca 360
taggatagat gcagtttctg atactgagac gtttgattct tctttta 407

<210> 50629
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H1

<400> 50629

cccacgcgtc cgggtgccacc tgacgagagc agcccatcac cgccaccgcc gcatgcgcag 60
gctccctatg cctctccacc aggggtagac tcgaggcatg gatattctca accggaggca 120
agacctgcat actcgcagcc atacccccca tcctatgggg cgacaccgca acagccgacg 180
tatggtgcac aacaccccg gtagtaccag ccgcctcctg gccatgactg cggtcagccg 240
gcatatcctg gatggcgcg gccataccca tactacaatg cccccagcc gcagcaatct 300
gtgccttgtc cacaggcgcc gtacaatgcc actggggctt acccttcgca ccagagcaac 360
ta 362

<210> 50630
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-028-Q1-K1-H2

<400> 50630

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atggactccg gctgaggcgg cgtcttgcc gccgtgctct gcatgctgct ggtcttcgcc 120
atcttccttc tctnctctg gcgcccgcac tccgatgcc ccaccgccga taaccaccgt 180
gtcccccccc agcccctcca ggaggatcag gtgctgcacg gtctcactgc ggcgcgacgg 240
atgcgtctga agcctggggc tgccggagca agctcctcta ctgcgtcaac tagccgcaat 300
gc 302

<210> 50631
<211> 364

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-H3

 <400> 50631

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 tggaactcgg tgctggaagc tgtgcggcaa ggggtccgca tgatctgcta ccctgtctcc 120
 gcagaccatt tcgtcaactg cgcctacgtt gttaacgtgt ggaaggtcgg ggtggagctg 180
 gccaccagtg gacaggggtga tgtgaaagac tgcacgaga gagtcacgga aggcgacgat 240
 ggacggcgtc tgcagcggaa ggtgaatgcg ttgcgagaaa cagtcacggc gggtaggca 300
 atgcgtgctg ccaagaggaa cctcacctta ttcacggaca gaatcaatgg cagttagcgc 360
 caga 364

<210> 50632
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-028-Q1-K1-H4

 <400> 50632

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 acagtggatc caagtattct ataaagcatg catgctccaa tttcccacaa gcgagaatgg 120
 catgatatga tggatgaaat ggctgttgcg gtcaaatgtc tttcaaggat caattgtctt 180
 tcaagaacca cacttatgta ttggtttgtg tgcagttcaa gctctgcaag gtaaggtctg 240
 ttcactttgg ccagaaagtc atgccctacc tgaacaccta cgacgaccgc accatccgac 300
 ttcgaccctc tcatcaaggc caacgacacc atcaagatcg atctggagac caacaagatc 360
 atggacttca tcaagttgta tttgccatnt catagacttc atcaagttat atactttagt 420
 aggctcaat 429

<210> 50633
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H5

<400> 50633

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gaggaccgca agctccgcat agaggacgcg aagaatgcga cttttgcagc aatagaggaa 120
ggtattgttc caggaggcgg tgcagcatat gttcatctat cgacattcgt accggctatc 180
aaggagacgt tggatgatcc tgaggagcgc ctaggtgctg atatcattca gaaggctttg 240
gtggcacctg cagcgctgat agcccataat gctgggggtgg aaggtgaggt gattgtggat 300
aaaatccggg aaagcgagtg ggagttcggg tacaacgcca tggcggacaa gcacgagaac 360
ctggtggagg ctggtgtgat 380

<210> 50634

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-028-Q1-K1-H6

<400> 50634

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gccatggacc ttgcggacgg gcgagacgac gccctcaatg gaggcgtcgg cgtcggcgctc 120
ggcgtggagg agacaaggag gaggaggaag gtggagctgg tgcaggaggc catccgtggc 180
ttcctggagg agaagaggag cgatggccag ggaggaggag aggagcgctt gacggccagg 240
ctcagggagg aggagcagga gctcctgttg tcgttgcctt ccaagttggg cgagctaaaa 300
accgaccccg atccagacat cttggaagaa ccgagctcct tccgcccga ccacggtcac 360
cagcctgcan gaggaagcga acgcagcaag gaggtggagc cagctgacat cggccatgac 420
ctgagcagga tcaagag 437

<210> 50635

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C7

<400> 50635

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 gaaaatcctg atttctacaa ctggaatata gttgtcataa ggtactgcga cggagcatca 180
 tttgctgggg atgcagaggg gggagatctg gatggaacca aacttttctt cagaggatta 240
 cgtatctgga aagcagttgt agatgaactc atgggaaaag gaatggacgc tgctaaacag 300
 gccttgctta caagctgttc tgctggttct ctagctgcgc tactgcactg tgataat 357

<210> 50636
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D1

<400> 50636

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 agccaaagcc cctcggatcg gatccggtct cctccgtgtc ccattcgcca cgcagcggcg 120
 ccacaggaga cggagacgga gatgaagctg tccatccagt cgctcgccag gaagctgtcc 180
 ctgccgtccc cgaagcgggg cggcggcggc atcgctgagg acgggaagaa gaagaagaag 240
 cgctcgctgt cgcgcggcga ggcgccgtcg ttcgcgtcct cttct 285

<210> 50637
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D2

<400> 50637

cccacgcgtc cggccaatca gagcgtgttc ctggtgaagt tccagccaac aatatctggg 60
 ttccaagaag ccatgagagt gcatacccat ttctccacca gaaaccatgg caaagaagag 120
 ttccagctga tgaaaggcag caaaggtaag aaggctgcct ccaactgatag cctggaagag 180
 ctgctgtatg cgcataattgg ggtcgtggaa gacctggggc tgctggatga gggaacaaag 240
 aagagatgca aggtcatgag gaagaaggaa attgaggcaa atgcagaggc aactactgaat 300
 ttagaagttt attaggtcta gtactaggat ccgaaccatt tgaagt 346

<210> 50638
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D4

<400> 50638

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 cgcgctcgcc accccggccc tcgcccgtga ccccgacatg ctgcaggacg tctgcccggc 180
 tgactacgcc tccccggtga agctgaacgg gttcgctgac aaggcgaact tttcggcgga 240
 cgacttcttc ttcgacgggc tgaagaacct gggcaacacc aacaaccgg cgggctccgt 300
 ggtgactgcg gccaacgtgg agaagttccc gggcgtgaac acgctgggcg 350

<210> 50639
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D8

<400> 50639

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 ggtgtgcagc tctatcagat agagagctga cgtgaggtgt gagacgcgga tcgtggagta 120
 ctactcagta ggagatcaag aggaaggagg tggggagggg gaagaaggcg atagccgggg 180
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 cccgtcaaatt tcaagtcatt gctcgtgccc ggcaagatcc aacacatcat ctgcactggc 300
 aatctctgca tcaaagaagt ccatgactac ctgaaaagcc tttgccctga tctccatatt 360
 accag 365

<210> 50640
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E1

50640 50641 50642 50643

<400> 50640
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gccatggacc ttgcggacgg gcgagacgac gccctcaatg gaggcgtcgg cgtcggcgtc 120
ggcgtggagg agacaaggag gaggaggaag gtggagctgg tgcaggaggc catccgtggc 180
ttcctggagg agaagaggag cgatggccag ggaggaggag aggagcgctt gacggccagg 240
ctcagggagg aggagcaaga gctcctgttg tcgttgctct ccaagttggg cgagctaaaa 300
accgaccccg atccagacat cttggaaga 329

<210> 50641
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E2

<400> 50641
ggactcgtgg ggcaaaaaaa aaaaatataa atataaaata taaaataaaa aaaaaggggg 60
aaaataa 67

<210> 50642
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E3

<400> 50642
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atactgaaat gattatgtat gcctaactac ttatatgaac tggaatatct tccttggcca 120
aaggagatgg ccgtgaatgg aaaaggtaca gatcaagaca aggccacct gtccaatgtc 180
tataccgatg tgatgcacag cagatcaaag aaagaaggaa ttgcaagagc cttcagtttg 240
tccagtattg attctattat gactccaagt cggatgtcgc ttggggatgt tgatacatca 300
agtaatacag tggcaagcac tgaaccatca gactat 336

<210> 50643
<211> 335

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E5

 <400> 50643

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 acccgactag atcttggtaa ttggaactta tctggtcac tggcgctga gcttgggaaa 180
 ttggagcatc tgcagtacct gcaactttac aagaactgca ttcaatgaac aattccttgt 240
 gagcttggtg atttgaagaa tctaataagc ttggacttgt acaagaacaa cattatgggg 300
 acaatacctg ctgtccttgg aaagttgaaa tccct 335

<210> 50644
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E6

 <400> 50644

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 cgatccggcg ttcatggacg gagcgaaacc cgcggcagca tgctgctcca ccctgcgtgc 120
 gcaggaggca tgcttggtgc tgtacgcaa agaccccaag ttgcaaaat acatcaacaa 180
 ccccaacacc gccaaaacct ttacctcgtg cggcatagcc atccccaaat gctaagcaag 240
 cgctctgcgt cgtcgcttcg cttgctcttg ctcttggtg taacatatcc agcttatgaa 300
 taaattatgt ggatcagtt 319

<210> 50645
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E8

 <400> 50645

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gaccatcacg ccttggcagc ttcaaagacc tgatccagtt cgtcgacaag aaggaggagg 180
agattaagaa aacgatgaaa cgaagatcag gcgagaaaga tagccaagct gcaggattct 240
catacgctca gtcagtggct tcagcatagg acattgctcc aaccatattg aattagggtta 300
tctccaaaag cataggacat tgctccaacc atattgtaaa tagtagtggt gtactgtgat 360
cagaacgaag atcagggttc tcatacg 387

<210> 50646
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F1

<400> 50646

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gccttctact gagagaaggg agatctgcac tggcccgctg tgtaatttat ttgttatccg 180
tggtgagccg ttgattcctt cttttttttt cttttcacca ttttttttct tccatccgaa 240
tatccatatt ccattcggca ttcgattcag taggactggc ggcattctgtt cgttcgtggt 300
gctacagggt aagaccgtgg ctccggaccag atggttgggc tg 342

<210> 50647
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F2

<400> 50647

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cataaaatct gaagctcttg gccctgacta tcaaactgac atgctacctg agattcttga 180
tggttcaatg ctctctaagt gggaagactt agcgttatta gcaaaggacc agtcttgcta 240
ttggagattt gagctgctaa atcttaatgt tgttcgagcc gagataatct tggatgaaat 300
aggtgctggt gaggcagcag atattgatgc tgtacttg 338

<210> 50648
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F3

<400> 50648

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tcctgcactc aagggtctat acccagccaa atctctatcc cgatttgctg atgtccttgc 180
cctgtgtgtc cagcctgaac cagaattcag gccaccaatg tcagaggtgg tgcaagcatt 240
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gcgaccagat gacctggacc aagatttcat atgacaagc 339

<210> 50649
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A5

<400> 50649

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ttcacaatga ccaaacacat cttttggctg tccatgagag ccagttggga atctatgatg 120
ggaatcttga ctgtttgcgc ttgtggtctc caagagatgc actcccagct ccgatatcga 180
gtgcgatata ctggtgcgac ggtctcttgg ttacgctgg gttctgcgat ggtgctatcg 240
gagtcttoga agcagaatct cttaggctgc gctgccggat tgctccttcc gcttacattc 300
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<210> 50650
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-028-Q1-K1-A6

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 cccttcctcg atgtcgctcg ctccgacgag actggggcgc ccatcacggg cgccgcgctc 300
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<210> 50653

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-B2

<400> 50653

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 cgcctccgct gccgatgcgc cctttgtcgt cgcgcacaag aaggtttcgc tctcccgcgc 180
 caagccgggc gtcgagcgcg tcgccgtctc cctcgacctc tacaaccagg gatccgcgac 240
 tgcctatgat gtgtcactta atgacgactc ttggccaaca caagcatttg agcttgtcac 300
 tggagagaaa tcgaaaacat tggaaagggc tgacccggg gccactgcta cacacaca 358

<21

<211>

<212> DNA

<213> Zea mays

<2 Clone ID: LIB3079-028-Q1-K1-B6

<400> 50653

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 cctcccgcga tccactctc tcgagctcta ggggacg 120
 tgcgagcagg gggagggaga agagcagccg cccgccccgc gagggggcaa cagctgcca 180
 agaacctgac cggaagagtt gtgggagcgg cggcggaag atggggcagg ccctgcgcag 240
 gctcttcgac tccttcttct ccaccaggga gatgagggtt gtgatgcttg gtctggatgc 300
 agctggtaaa acaacaatac tgtacaggct tcacatggga gagggctctt caacagttcc 360
 tacaagtcgg tta 374

<210> 50655

<211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-B7

 <400> 50655

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 gtccataccg atggagggtga tcctccggaa gcagaggctg ctgcggaatc cgtccatgaa 120
 gcaggccatg ctgttcccgc agcccgccca ggctggggac gccttccacc agatcctgaa 180
 cgggctggcg cggaagctgc cgcacggtga ggacgtgttc ctcaagcccg ggcagaaggt 240
 gctcaactgg accgagggcc cccgcggcga cctgaagcca tggtaggtgt actggaaaaa 300
 aatgccatgg caccgtcagc gtgtccgctg ttcttgtgta cgctacacag cacaaccaga 360
 tgggaagctg atcga 375

<210> 50656
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-028-Q1-K1-B8

 <400> 50656

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 tcacagctcc aacgccgcag aggttcgcca acgcatcgac cagatccaac tctggcaaga 120
 aggtagaaaa ttctactttt gttttcgcac aaacactcca aaaaaaata ttgtaccttt 180
 gtattcgtac aatccctgtc acagtatcat atctacattt tttgggtcta cctcaatgac 240
 aacaaccctc tcaatacctt tgaaggtgtg atgtcaatac ctagaaagct gactgcattt 300
 gtttaaaaca ttggtttcgt agatgtggtt atgattttgg caaaaacaga agcgtgcccg 360
 agaacaagct anggcccttt gcgaatcaga tgctaattac tgcaattggt ggt 413

<210> 50657
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-C2

<400> 50657
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 tgatcgtcac ccatggccac tgccgaggtc cagaccccgga ccgtcgtggc gaccgaggaa 180
 gcgccggcgg tggagacccc ggctccgtcc gccgtcgtgc ccgaggaggc tgcccccgcc 240
 gccgaggcca aggtggagga gccagctgcc ccggcggaga ccgagccagc 290

<210> 50658
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C3

<400> 50658
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 cttcagccac ccaaatecga aagcctgctg ttcacatggc tagcgttgac ttgaaaggaa 120
 aagcatacga tgtattgagg cagaattctt ccaggttttt gttggaagat gtctacagga 180
 acccagggtcc gctccagttt gaaggaccag gtgccgattc aaagcctatc tctactgtgcg 240
 tcgaggatca agactacatg ggcaggataa agaaattgca agaatacctg gagaaggatga 300
 agagcattgt gaagcctgtg tgctcgcagg at 332

<210> 50659
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A2

<400> 50659
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 aaaaaaatgg gactcggttt cacaggaccc gacgtattct tcgtctggca tctcacctat 180
 atgttcctct ttggtgttac ctatgtccat ttcactttcc ttcattttcc atatgcttat 240
 actgggaaaa ccgttattgt ccctcatata atctccttga gc 282

<210> 50660
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C4

<400> 50660

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 tatgctacaa agaatagagg caaaattctt acaagtttat gttggaagat gtctacagga 180
 acccaagtcc gctccagttt gaaggaccag gtgccgattc aaagcctatc tcaactgtgcg 240
 tcgaggatca agactacatg ggcaggataa agaaattgca ggaataacctg gagaaggatga 300
 agagcattgt gaagcctggg tgctc 325

<210> 50661
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-027-Q1-K1-G2

<400> 50661

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 aagggccttg agccctccga gttcgaggac tccgttgccc aggctttctt tgatctggag 180
 aacgggaacc aggagctcaa gagcgacctc aaggacctgt acatcaacaa tgctatccag 240
 atggatgtta ccgggagcaa gaaggctgtt gtcattccacg tnccataaccg nctgcgcaag 300
 gccttcagga agatccatgt cagactcgtc agggagctgg agaaggaaat cagcggcaag 360
 gatgtggtaa ttggtgctac aaggaggatt gtgaggccac ccaagaaggg ttcagctggt 420
 ttgcgcctc gc 432

<210> 50662
 <211> 394
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-G3

<400> 50662

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ggccgtggta agaagctgca agaggaatgg gctgttccac tgaaatctgt ggaggacatt 120

agtgagcgct tcacaaactt ctgtcaaggg aaactcacia gcagcccatg gtcagaattg 180

gacggtcttc aaccagagac aaagattatc gatgaccagt tggatgaatat taaccagaag 240

ggtttcctta caattaacag ccaacctgct gtaaatggag agaaatccga ctcgcctact 300

gttggttggg gtggtcctgg aggctacgtt tatcagaagg cctacctcga attcttctgc 360

gcaaaggaga agttggacca actaattgag aaga 394

<210> 50663

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-G4

<400> 50663

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tggggtaaaa atgacttggg ccggaatgga tttgtggacc atattaatac gacaaaggac 120

tccaccgact acctatggta cacaacaggt tttagtgtgg atggaagtta ctctcaaaa 180

gggagccatg ctgtccttac atatcgactc caatggccat ggtgtccatg ctttcttgaa 240

taatgtgctc ataagtagtg catatggtaa tggctcacia tcaaaattca ctgtcaaaat 300

tgccattaa cctgaggact ggaaagtatg aac 333

<210> 50664

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-H4

<400> 50664

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ggcgggctcc cccactggct cctcgcgcc gccggtggtg cctatggagc ttcacgccgg 120
 caaccgcgac cgctcgtcg ccgcgctccg cggccacatc tccgcctccg cgcgcccgt 180
 ccacggcctc gtactgcttc agggcgggga ggagaagaca cggtagtga ccatcacct 240
 cgagctcttc aggcaagaga gctacttcgc ctatctcttt ggagtgaag aaccagggtt 300
 ctacggcgca attgacatcg cctctggaca gtcaattttg ttcgctcaa gattgccagc 360
 tgactatgct gtttggatgg gtgaaata 388

<210> 50665
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A1

<400> 50665

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 agacaggcat aactaagggtg ctggggcggg gcccaaatca ccgattaaag ctagggtttt 120
 gtgtgacttg ggaacacaac accgcggaac cttcgtaagg acgctaagct atctgttcct 180
 cgaggaaatt acctgtgacc atagaaatat gattaaagat catatgctta ttattatggt 240
 gttgttattg tacatcatat agtcgcgtac agttttgaaa ggaacattag tcattagttt 300
 atattgtata cttgtaaaac ttcctcacag ggttgttttg gttttcattt ctac 354

<210> 50666
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-F5

<400> 50666

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 aaagacgcaa aaacatgaag agatacacat acacacaagt ggacgcccac tctaaggagc 180
 caacataacg ccacggacgc agtgctctac cactacatga actggcgcag caaattctac 240
 tccaagggtc ccctttatca agtcaaggat ctgaaaaacc cccagggtgac caaactaaat 300

tggtccaggg ttcattgttg cttggactta ttagtagagc aacgcttgga tac 413

<210> 50674
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E8

<400> 50674

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ccttcgggcg cctggacgcc taggcgacgc ctttaaaaca agggctcttct ctgtattaaa 120
tattttctga tgtacagtag ctaccttggg aattcatgcc ttcaacatg 169

<210> 50675
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C7

<400> 50675

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ccatcactct ggggatccga ttgatcccca gttggaaggc atcttccaca actactctgt 180
gaagcgccag atcatcaatt ctggacccat cattgcatcc cagttgctgc ttgtggatga 240
agtgatcagg gcatgccgca acatgaggaa accgacttag atttttgtcg ccacctagcc 300
gagacttatt cgttctacct tttgttttgg ttctgtgcct agtagtgatc tggatgatac 360
gtctgacttg agttgggtccc atttcacgaa gcacgtcgca ttcgcttttt ttttgtggga 420
ttactg 426

<210> 50676
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A5

<400> 50676

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acaggaggga tggaggaagg agacggtcga tcagagtctg agaccgaggc ctatccacca 120
ccgcagcgac gagcgggagg agatgaagat catcattgac acggatccccg gcatcgatga 180
cagcgtggcc atcctgatgg cattccatat gccgggctc caggtcctat ggctcaccac 240
catcttctga aactgcacca cagagcatgc cacacgcaac gccttgatcc tgtgcgagaa 300
ggcaagccat ctagagggtc cagtagctga cggcagccat gagcctctca aaggaggaaa 360
gccgcacgtt gctgacttcg ttcattggacc tgatggcctc gggaacgtag atcttactga 420
tc 422

<210> 50677
<211> 388
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-027-Q1-K1-A7
<400> 50677

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ccctccttcc cctacatccg cggctgggtc ttcaccttct actcggggcg tgctatgggt 180
tctgtttagg aacatcttca acccaagggtg tgcgtgcata ctagcacctc cggttgctgct 240
tgagcagatc ctgccctggc tcttctatca caaggctcgc ggcgtctcgc agttcctgct 300
cttcgtggag ggcaaggcgg ctaaaccctaa tgcgcgggga gtccctcgagt caattcctgg 360
ggttaaagtg gtgttccgaa ctaatgat 388

<210> 50678
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-027-Q1-K1-A8
<400> 50678

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aagaaagaaa gaaaatttcg aggccgagaa aaaagacggc tttgatctct gctagtgtgg 120

tgtggtagtg tgtgcttcta gtaagtaagc gagccaggga tcaagaagca gagagctgct 180
ctgtctcttt tgtctcttgc aagaatggct tcctccagcg ggagcgggag ctcggtctcc 240
ctctcggcgg caacggcggc cctggccgcc gcggcgggca cggaggagga gctgcgcgcg 300
ctcatggagc agcgcgcgcg gaagcggatg ctgtccaacc gcgagtcgcg gcggcggtcg 360
cggatgcgca agcagcgcca cctcgacgag ctgaccgcgc aggcggcgca cctgcgcgcg 420
gagaacgcgc acgt 434

<210> 50679
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-B4

<400> 50679

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ttatcacctt agctcctgca acaatcatca gccctattac aacagttacc tcaggtgcat 120
ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 180
gcctactctc agcaacagca gtttcttcca ttcaaccaac taggttcatt gaactctgct 240
tcttatttgc aacaacaaca actaccattc agccagctac ctgctgccta cccacagcaa 300
tttcttccat tcaaccaact agcagcattg aactctgctg cttatttaca gcagcaacaa 360
ctactaccat tcagccagct agcttgtgtg agccctgcta ccttcttgac acaaccacag 420

<210> 50680
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-B7

<400> 50680

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cgtcggcatc aacttcgagg aggtcgactt cgacaggacg gacgcggtgg acaaggtcat 120
ggacgacttc gacacgtccc gcaacgacgt cgtcgaggag gaggagtctg tgcaggggat 180
gaggaagtgg ctggacgagg ccaggcgagc cgtgcccgtg ggcggcgcct tctccagcaa 240

aagangttgc tgtgtttggc tgcaggaacc ttgaggagat cccatggggt tcgg

354

<210> 50683

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A4

<400> 50683

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tgggcacacc aaagaggaca gcaatgctag gaacatgacg atgaccaaga cgagggcatc 180

ggtcaacata cttgttagcc gtaatgacga cgggccatgc tatctagatt ccggtcttaa 240

tgagtacgtc tgcagaaaga ctaataagtg ctataagagc ttggtgctct gcgtggcgag 300

ttgtcaacca tcatcatgaa ttcatgatac tgcggagaca tcatgatact gcggagacag 360

acggcgagag atgaggctag ctagatgctg tttcaccaaa atattatgta acacccaaat 420

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<210> 50684

<211> 161

<212> DNA

<213> Zea mays

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<400> 50684

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actaaaaaaa aaaaaggcag gagaaataaa acatggaaaa actacaaaaa tataacgacc 120

aatctcaaat ctactacca ctctttctat cctcttccat c 161

<210> 50685

<211> 418

<212> DNA

<213> Zea mays

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<400> 50685

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gcgggagatg ggcgatgcca acgcaagcag gcatgttgag cagtcactcg cggaggtggc 120
agctcagatc gagtctgtga cggagaagat cataatggag gaggagaagg tgaagaagtg 180
gaaagcggag aacctgagga ggaagcataa ctacgtgccc ttcctattca atttcctcaa 240
gattctcgag gagaagcagc agctgaagcc cctgatagag aaggcgaagg cgaagcagaa 300
gtcccacggc ccagctagg tgaaaagccg caatgcacct acgtactgtc tcttttagtt 360
ggggttcctt gtaagattgg agttcgcgta tatgctttct ggtttttagtt taagacaa 418

<210> 50686
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H2

<400> 50686

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atgagtacaa agcgtgtgcg gtcattggtg ttacgcaatg catctacgcc gctctagcgc 120
tcttgtccaa tgccggcgttt accggcggtg tgagccctct ggtgttcgac gtctacaggc 180
aggccgttgg caccattgta cttgtccccg tcgtcatcgc tgtcaacatg aagaagatta 240
atgagatgac gacaggcctt ggactgaccg gcttgtcgct ggtcttactc gtcttccttg 300
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<210> 50687
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-027-Q1-K1-A2

<400> 50687

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ccctccttcc cctacatccg cggctgggtc ttacactccg actcgggcgc tgctatgggt 180
tctgtagagg aacatctcca acccaaggtg tgcgtgcaga cgagcaccta cgcggggcctt 240

gagcagatcc tgccctgggt cttctatcac aaggtcgtcg gcgtcgcgca gttcctgctc 300
 ttcgtggagg gcaaggcggc gaaacccaat gtcgcgggag tcctcgagtc aattcctggg 360
 gtaaaagtgg tgtacagaac taatgatctt gangagcggc aggcacggag tcgaatctgg 420
 aatgagactt ggc 433

<210> 50688
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-E2

<400> 50688

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 ctctctctcc tggctctctc tgcgagcgcc acctccacgc atacaagctg cggtcgcggc 180
 tgccagccac cgccaactgt tcattctaccg ccattctgtgc atctgccacc ttctgatcac 240
 ctgccacctg cagtgcattt tccaccgctt gtccacctgc cgactccagt ccacctgcca 300
 cctgctgtcc atgtgcctcc tgctgttcat ctgccggcgc caccatgcta ctaccctact 360
 caaccggccc tgctcagac tcattctcag acacacca 399

<210> 50689
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-E3

<400> 50689

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 aagggtgagg ccattcgacgc cgggtggacat gagccactc ccgtccccc ccaaggccat 180
 gacaccctgg cagccgcagc cggtcacggc ctcccagggt ccgtcgcccc tgagcatgac 240
 tcataagccc ccggtcagcg gtgccataat cggttatgcc cctaccccg atgccgtgct 300
 ggcgcccgcg gcctggggca tggccatgct cgcgcccgtc atgatgggtg ctgcagcgcc 360

tgcgaaagccc atggtgatgg cctcatcggg caccggccgc ggcaacatca gcaagcgga 419

<210> 50690
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F1

<400> 50690

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actaattatc ttggctcaaa ccatgttcca agttcttcag attgcgagca actggtggat 180
ggcatgggca aaccacaaaa cagaaggaga tgctcccaag acagatagtg tggtccttct 240
ggttgtttat atgtcccttg cctttggaag ttcactatct gtgttcatga gaagccttct 300
tgtggctacg tttggttttag cagctgcccc gaagcttttt ataaaaatgc ttaggtgtgt 360
ctttcgagct ccaatgtcat tctttgacac caca 394

<210> 50691
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D1

<400> 50691

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gtattgagcg ctcccccccg gggttcaccg gcggcggcaa cgacggtgaa aactacatcg 120
ggtgctagct ccgacggtgg tgcgtgccct gttgacgata gggcgcgcgg tgcgcgggca 180
gcttgtaggc gttcgatcgg ccatgtaggg caactataca tctttggcag gtctccatca 240
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tggcgcgcgc gcgcggctct gggcgaatca cagtagagat gcaatatcat gtatccagta 360
tctttcttac aacacaaaca gtgagaaatt attagtcaag tgtgcattgt ggtgcaagca 420
ct 422

<210> 50692
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D2

<400> 50692

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gtgggtgacac atggatgaga gttggcatat ggctgctgat ggggtgttctc ctgtacattt 180
tctacggacg aacccacagc tccctaacag atgtcgtcta cgttccagta acgcaagctg 240
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caaggtggct ggtcattcag ttgtagataa ttggttatca accaggaaaag aggggaattg 360
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<223> Clone ID: LIB3079-026-Q1-K1-A8

<400> 50693

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tattggctgc tgccatactg tcttactgt ctccatgcta cgaagcctgc tgctgcatca 180
cgaaacccat aaagtcaccg tcgtcgccga gaaggccata cttctcgtcc tattccgagg 240
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actaaagcgt gtagcacaaa gtgtgctgct gtcgccatta gaaatataat agcgtatggt 360
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<212> DNA
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 agttgctagc ttcacttgcg gatgcacgca cgaaggcatc ttgttacctt ctgtgatgc 180
 ataacccttg ttgtcaaagt ctgatattaa tagctgaccg tttgaagaca aagggacgta 240
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 ccgg 304

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 aggaggaata acaattatcc ctccacaaac tgcttttctt ctacataatc ctcatgcctc 180
 atttaatat actctgaact atccgatcta caaattacaa gacaggactt atgagtcaaa 240
 ggatcaaatg gatgctggac tactactcaa tccatatgag aatctgtata tcaaattgac 300
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 agtctgaaa 369

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 ccgcatggcc aaggccaagg agcagggcaa gctggtggtc atcgacttca tggccccctg 180
 gtgcagtggg tgccagatga tggccccggg gtacgcggac tgcgccagca agtacccttt 240
 cgcggtcttc ctcgaggtct acgtggacga actgctggaa gtcgcgaaga tctacggcgt 300
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<210> 50697
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H10

<400> 50697

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 accaacaaga aggtgctcga ggaggtctcg attctgccct cgaagcgctt ccgcaacaag 180
 gtggctggct tcagtaccca cctgatgcgc cgcattccagc gcggcccagt ccgcggcatc 240
 tcgctcaagc tgcaggagga ggagcgcgag cgccgcatgg acttcgtgcc ggagaagtcc 300
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<210> 50698
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H12

<400> 50698

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 atactcgctc tatagttcct atctaccatc tctatgttaa gcctcaaccc ttcaagctgc 180
 cctacttcaa atacccttaa ctcccc 207

<210> 50699
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-H3

 <400> 50699

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 tgaccctcac aagcttctgg aaggatgcct tattgctgga gttggtttga gggcattagc 180
 tgcttacatc tacattagag gtgaatactt gaatgagcgt gttaaccttg a 231

<210> 50700
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-H5

 <400> 50700

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 ccgatcgagc tgccagccac cgtcaccagc tcatgtacac gacgtcgctg catctgccag 180
 ctccgattca cctgccacct acagtgcac tcccaccgcc agtccacctg ccgccgaccg 240
 tccacctgcc aacgacggc catgtgccgc cgccgttca tctaccgccg acaccatgcc 300
 actaccctac tcaaccacca cagactcagg ccttcattcc cagccacact catgcccgtg 360
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<210> 50701
 <211> 430
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 <223> Clone ID: LIB3079-025-Q1-K1-H6

 <400> 50701

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 cttcagcttc tcgaccttaa ggctcgcgct gctgctgcag cagcatcgcc actgccgaca 240
 ccaattggcg atgccttcgc gtccagccaa cctgtgagca ccaccgcagt cgagtcgcca 300
 tcgccgccag agtccgggca gcagctgctc aagctttgag gagcggattt gctctggagg 360
 ggaagggtcaa cggtggtgat aaggaggaat ctggtcgcga ggcgagccca aacgccgatg 420
 atagc 425

<210> 50704
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A1

<400> 50704

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 gctatgataa ctgtgcaatc tgaaaatcaa agtagaaaaga agacttttga ctgcaagcct 180
 cttggtgtca tttgggctca gttccctgag tactacaacg aaaagaacac cataatgttt 240
 gatgatctaa gaaggaattt cgtcatgaat ccacagaacg gtctcgtgat caagccattc 300
 aggaaagcgc actcgaacag gcatgatgat cagcagctgg taaagcttac aactacctg 360
 ctttcgatcg gagacctaga agatctcagc aagcttgacc acggttaatg gg 412

<210> 50705
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A10

<400> 50705

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 gttacacatt atttatcttc taaactttta gtttcctcac ataactacca atatttacca 180
 ccttttttac ctctataaat attttcgcta tatccatca 219

ccagcagttc ggatcctgcg gcgtcggcag cgtcggcagc ccgttcctgg gccagtgcgt 300
cgagttcctg aggcaccagt gcagcccggc ggcgacgccc cctacggctc gccacagtgc 360
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<210> 50709
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-025-Q1-K1-F5
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gtcggcatct gcgggtttca gctcttcgga aacatcactg gcaacccgga agtcagggtg 180
aacaaggcag ggagggcagc tgggtgtgctt gagaacctg aggaggggag acgttacgcc 240
atgcatggcc taagaagctt tgtgcacgac aagactcctg agatcatgcc tgcagttaac 300
aagttcttca ctgaccctaa gtgaagcaat tgttgattgg catactacta ctactacttg 360
ctactgggga ttntacactt tgctggcaac tcaatcatgt ggggacatcc atgacctcta 420
aaagt 425

<210> 50710
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-025-Q1-K1-F6
<400> 50710

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aagatcatcc tcacctccga cccaagctc cttttcaaag tgttcagcgt gcccgaggcg 180
gcgcccttta ccgcggtgct caagtacgcc gcggaggagt tcaagggtccc gcccagacc 240
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tttctgaaac atggttcgga gctgcgtctc atccccctcg cgatagagtt ggagctgtag 360
 tcatgtcttc cggttagagg atatatacag tccaatgcat aatgagcata acttgagaga 420
 aataaagctt tgat 434

<210> 50711
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F7

<400> 50711

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 ctgtgaaacc ctttaccttg cccctctaatt tcactttggt agccca 226

<210> 50712
 <211> 438
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<223> unsure at all n locations
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 gcagcaacgc ccaccaccgc cacggactcg gcaggtcaac cctgcacctc cacctattcc 180
 cgcaccctcc gcgcctccga tgccaccaca gctgcccac gccaagttc ctcccactcc 240
 accaaggccc ctagttccag tggttcctcc tggcgagtg cctcctgccc cgccaccaac 300
 tgctcctgaa gccaccgnca ccaacggtct tcaggaacca ccgaaaccat gcaagtcgac 360
 ccacctcgtg cttcactgag cggcccacca ctaccacctg aagagacgct catcgaggag 420
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<210> 50713
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<212> DNA
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 aagaaatctg taacttatgc tgaaagtcac gatcaagcat taatcgggtca tcagactatt 180
 gcgtttttgg tgattgaaca atgatatgta ttatttcatt gccctccata gacctttaac 240
 ttctaccatt gatccatcga tagcattaca taagaagatt tcacttatca caatggggtt 300
 aagatgataa ggctatctta atttcatggg aaattaattt ggacatcctg aatggataga 360
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<210> 50714
 <211> 321
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 <213> Zea mays
 <223> Clone ID: LIB3079-025-Q1-K1-G1
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 accgttatgg actgcgatat ggtacttgca atgagtgacg ggaaagtagt ggagtagcac 180
 aagcctacaa agctcgtgga aaccgaagga tctctcttcc gtgatcttgt caaggagtac 240
 tggtcataca catcgaattg aaatatctag gagaaactgt gacaatcaca tgttcactcg 300
 ttgcaatctc ttaaaaaaag a 321

<210> 50715
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-025-Q1-K1-G12
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 gaaatgcata cataaaagat atgcttacca gattgtgcta aaaaccttgg atttgctgcg 180
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 tgatgtgcat ggccagtact ttgatttgct caacatattt gacctcaatg gccttccatc 300
 agaagaaaat ccttacctct tcaatggcga ttttgtggac cgaggatctt tctccgttga 360
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<210> 50716
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-G3

<400> 50716

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 gatgccagca agggctgaac atntggcgtc gctaatttag agaattcttt ttagtctttg 360
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 <213> Zea mays

<223> unsure at all n locations
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<400> 50717

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tcagtgtgca atgagaaatg tgagcgggta atgtacggct ttcccccca aatattact 300
gcaatagtac cgtttgtact taaaaaagac ggaaaacaca atatagatga tcctttttat 360
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<211> 439
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<223> unsure at all n locations
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<400> 50720

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gccgctgcca tctctccgc cttctgattc ccactccncc cactccccaa ccctaacctn 360
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<210> 50721
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 50721

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tgatataatg atcttggtccg gaagaggaat tttgctcagg tttttggaaa tgacagaaaa 180
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<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 50722

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<210> 50723
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D6

<400> 50723

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gaagtgagtt agttcagaag tatgtcggcg aaggtgctcg gatggtcagg gaacttttcc 240
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<210> 50724
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D7

<400> 50724

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tgtgttgtaa atgggggtctt ggaactgatt tcttctgaag ctacctccac tgagcgaact 180
ctaattgtcc catacatcac aagatcgta agctatcatc atggaacgga acatgcaaca 240
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<210> 50725
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D9

<400> 50725

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ctccacacta tatatcaaca tacaaaaaac ctgctctgat tatgaaccac tcgtcaaca 180
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taccagacct ccaattgacc tattatatgt tatctagtca aataaaagcg ccattatatt 300
tcacaaaaaa acatcaaat aaaaaaaca cggcccctct aaaagatc 348

\mathcal{C}_1 \mathcal{C}_2 \mathcal{C}_3 \mathcal{C}_4 \mathcal{C}_5 \mathcal{C}_6 \mathcal{C}_7 \mathcal{C}_8 \mathcal{C}_9 \mathcal{C}_{10} \mathcal{C}_{11} \mathcal{C}_{12} \mathcal{C}_{13} \mathcal{C}_{14} \mathcal{C}_{15} \mathcal{C}_{16} \mathcal{C}_{17} \mathcal{C}_{18} \mathcal{C}_{19} \mathcal{C}_{20} \mathcal{C}_{21} \mathcal{C}_{22} \mathcal{C}_{23} \mathcal{C}_{24} \mathcal{C}_{25} \mathcal{C}_{26} \mathcal{C}_{27} \mathcal{C}_{28} \mathcal{C}_{29} \mathcal{C}_{30} \mathcal{C}_{31} \mathcal{C}_{32} \mathcal{C}_{33} \mathcal{C}_{34} \mathcal{C}_{35} \mathcal{C}_{36} \mathcal{C}_{37} \mathcal{C}_{38} \mathcal{C}_{39} \mathcal{C}_{40} \mathcal{C}_{41} \mathcal{C}_{42} \mathcal{C}_{43} \mathcal{C}_{44} \mathcal{C}_{45} \mathcal{C}_{46} \mathcal{C}_{47} \mathcal{C}_{48} \mathcal{C}_{49} \mathcal{C}_{50} \mathcal{C}_{51} \mathcal{C}_{52} \mathcal{C}_{53} \mathcal{C}_{54} \mathcal{C}_{55} \mathcal{C}_{56} \mathcal{C}_{57} \mathcal{C}_{58} \mathcal{C}_{59} \mathcal{C}_{60} \mathcal{C}_{61} \mathcal{C}_{62} \mathcal{C}_{63} \mathcal{C}_{64} \mathcal{C}_{65} \mathcal{C}_{66} \mathcal{C}_{67} \mathcal{C}_{68} \mathcal{C}_{69} \mathcal{C}_{70} \mathcal{C}_{71} \mathcal{C}_{72} \mathcal{C}_{73} \mathcal{C}_{74} \mathcal{C}_{75} \mathcal{C}_{76} \mathcal{C}_{77} \mathcal{C}_{78} \mathcal{C}_{79} \mathcal{C}_{80} \mathcal{C}_{81} \mathcal{C}_{82} \mathcal{C}_{83} \mathcal{C}_{84} \mathcal{C}_{85} \mathcal{C}_{86} \mathcal{C}_{87} \mathcal{C}_{88} \mathcal{C}_{89} \mathcal{C}_{90} \mathcal{C}_{91} \mathcal{C}_{92} \mathcal{C}_{93} \mathcal{C}_{94} \mathcal{C}_{95} \mathcal{C}_{96} \mathcal{C}_{97} \mathcal{C}_{98} \mathcal{C}_{99} \mathcal{C}_{100}

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<213>	Zea mays

<400> 50727

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21726

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gcaagctcct atagcttccc ttcttcccc gtacctctca ccagcgggtgt cttcgggtatg 180
tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcattctacc 240
tttatcacc ttgttcttc aacaatcctc agccctatta catcagttac ctttgggtgca 300
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gctgcctact ct 372

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<211> 299
<212> DNA
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<400> 50731

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aggtgggtgga ggtgccggct gagctgggtg cggtctgtgag ccggacgccg tcgtccaaga 180
cgaaggcgtc cgagctcgtc gtgcgctttc tggggaccag ctgccccttc gacgtgtccg 240
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<210> 50732
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F1

<400> 50732

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gcgcttctctg gccgcctccg agccggccgt gtccgtgcag ctcggcgacc acggccacct 180
cgctactcc cacaccaacc aggcgtcctt ccggcccagg tcgttcgcgg ccaaggacga 240
ggtgttctgc ctgttcgagg ggggtgctgga caacctgggt cgtctgagcc agcagcacgg 300

gctgtcaagc aagggcgcca acgaggtgct tccctcgtca tcgaggccta caagacgctg 360
cgcgaccgcg cgccctaccc ggtcagcttc atgctcgccc agctcacc 408

<210> 50733
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F10

<400> 50733

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acggtatggt gagacggcac aatcacctgc gcacgcaca gttccaccag catctggcag 180
agaagctgga cctggacatg tcggccctgc aatacatgat gaaggaatac cctgggaacg 240
aagaagagcg gatgagagcc gcagatggta agtttgggct gtcaggggaag gctcacgtga 300
tgccgatgag gaatctgtct gacgggcaga ggagccgtgt catctttgcg tggctggcat 360
acaggcagcc gcagctattg ctgctggacg agccgacgaa ccatcttgat atcgag 416

<210> 50734
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F11

<400> 50734

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tctaattggct cctatatgac ctaacttaaa ctacccaac tctccattca ttcgcaaaat 180
tgacaccgca tgcccatat ttaagacaaa gtctcgccac ctataaaaca tacggcttgg 240
tatacccctt gttacatcca actgcaacac ctatcaacac attcccaata atcaaact 300
ctctatctca aaaaagacgc cccctatctc ggtgccatac ctaatctcga acagatcaat 360
actctgatca 370

<210> 50735
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F12

<400> 50735

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 aagaaccctt gatcatatga agttgacagg gtctttccca tattaaagca acagaagtaa 180
 aggagggggc tttcttcag ttgtgaggat aactccaca ttggagggtt tggtttgggt 240
 tatacataac tgatatgcat accaaacgag gggaattgtc tgtaaatac gagaaccctc 300
 tgctgcgcgg aaacttattg caaactgtct ttttatagga aaacgataca tgcaagtttt 360
 cagacaggga acttgagagg atcatatgta atttttgggc acttggtttt gactcctttg 420
 gttatcaaaa a 431

<210> 50736
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D5

<400> 50736

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 tctccacgct cgtctccgtc tactccgctg accgcgtcgg ccgccgatg ctgctgctgg 180
 aggccggcgt gcagatgttc ctgtcgcagg tggccatcgc catcgtgctg ggcataaagg 240
 tcaccgacca ctccgacaac ctgggccacg gctgggccat catggtcgtc gtcattggtct 300
 gcaccttcgt ctctctcttc gcctgggttc ctgggggccc ctgggctggc tcatccccag 360
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 gctc 424

<210> 50737
 <211> 421

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 actcttaaat ggctcttttc agactcatag tcccgccctt ttttacttga atattgggga 360
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<210> 50744
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C8

<400> 50744

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 ctgcgcaaag ctctcggtcc cagtggagga ccccaaagca gtgacggcgg gcggtggcac 180
 cgtcttcgtc aaagccacgt ggctgccgtc ccgcttctcc ctgcgccgtga ccgatgggtgc 240
 cggcgccctgg gtcgccgacg cctctgacca cgaggtgcgc ctccgcgccg agcagtggga 300
 tcagcccgtc gccgattaca tcgcccttgc cgaaggcgct acctcgcttt ccaacagcct 360
 ggttccacgt attccttcca tgacgccggc aaaggccaac gcaggctcgc ttggacattt 420
 gaaagac 427

<210> 50745
 <211> 66
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D10

<400> 50745

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<210> 50746
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D11

<400> 50746

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ttgtacatca tctccagatg atcataccac ctgaaagatc aatcagttgc caaccctaata 180
gctttctctt aaaagtgtaa acgatgcgct cctaccttac tctgcatgaa ctatgccaga 240
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cagatctgtt caatg 315

<210> 50747

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D12

<400> 50747

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gttgatgagg caggggcctg gaaaagcaag cttcagcctg aatcaaggga gctgtttgag 120
tttttgcca atactattca ggagcaactt atgcttgaaa gggatcccca tggcaatgtt 180
caggtcgcaa aaattgaaac cgagaaaatg ctcattagca tggtggaac tgaactggag 240
aagagaaagg cagaggggag atactctgca catttcagag ggcaagctca tttctttggg 300
tacgaaggaa gatgcggcct tctactaat tttgattcta actattgcta tgcattaggc 360
tatggcgctg gtgcccttct ccaaagtggg aagacaagac ttatttcctc 410

<210> 50748

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-D2

<400> 50748

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 cttgccacca aggtgccccg taagtctgcc cccaccactg gtggagtga gaagcctcac 180
 cgctaccgcc ctggaactgt tgccctccgt gagatccgca agtatcagaa gagcactgag 240
 ctgctgatca ggaagctgcc cttccagagg ctctgcaggg aaattgcaca ggacttcaaa 300
 actgatttgc gtttccagag ccatgcggtg cttgcccctt tccaggaggc tgctgaggca 360
 taccttgntg gcctgtttga ggacaccaac ctgtgcgcca tccatgctaa gcgtgtgacc 420
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<210> 50749

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D3

<400> 50749

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 aaggaacgcc cagtcagaat cagatgtgct gttccaaaaa aggatgacca aaaagtcaat 120
 gacaatggga actcagatca tctgaaaagt gaaactagga catgctatga atgcggaacc 180
 cctgggcact cttcttcttc ttgccctaata aagaaggatt ctgaagcaag gaagagctat 240
 gaatgtggca ccccggtgca cctctcttgt gcttgcccaa ataataacga tt 292

<210> 50750

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D4

<400> 50750

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 ctgagctggg accacgcggc tgagctctac gaggacgtcc ttgtcaaggc caagtaccag 180
 tgggtgaacc ttcgccctcc gcatcaatat cttcggtttg atccatttgt acatcgcgcg 240
 tttgacggtc tcggtgaaga acttcatatg cagtgcgcg ccgctggggt cggtagcagt 300

gtgaggtct taatccaatt ttcagggatg ttctccggtc aaatgaactt tcagctctt 419

<210> 50753
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A4

<400> 50753

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gttggataca cataatccgg aaagcaagct tgggagcaac aacactagga ctgactgacg 120
cactccgcaa aagtgcacaca atcttgagcg agaacacgag ctgtgcttag gccagggcag 180
ggaactgagc ctggtcttcg atcgctggag cagcagctgg tccccgataa ccgcccgttg 240
aaccaccacg gaacccccca cggcccctac cacggccacg gccactaggg ttatagtacc 300
tttcgccttc agctggcttc aagaactcgt tgatgccctt cagggacttc ttgccccgtt 360
cttctctttc agcaactttct ttctttttca agtccttgct agagcccagc ttgataaaca 420
ctttatcgcc atcctttt 438

<210> 50754
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A5

<400> 50754

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tgagattgtg gaaaggtcga gccagactca tgaçcacaag acgaaggcgt gcgaaçcttg 180
cagagcgctt actgacgacc atctgcacgc gtcaacgcgt ccgggcagtt aatatagctc 240
tggcgaattt gctactcgca cgacagccat gccctactgc gctcaaagtc gatcgttgcy 300
aatgatgcag tgatctgact gttcgaagaa atttgctgga caacctgagg cacatgagcc 360
ggtagatcat gct 373

<223> Clone ID: LIB3079-025-Q1-K1-A8

<400> 50757

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tatccatcct ctgcgctgct cggccaaaac aaggatgcta cgcttgaagc gcttcctgta 180
gatgagctca ttgagaaggc cgatggtttt gccggagtct tccctgaaca cagtacgag 240
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gatgccccgg ctcttaagaa ggctgacatc gggntattgc tgttgccgat gctactgacg 360
ctgcgaggag tgcttccgat attgtcctta ctgagccagg tcttagcgtc attatcagcg 420
ccgtcctc 428

<210> 50758

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-A9

<400> 50758

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gctgcgagac gagaagacga ggctcaaggc tgagaaggag aggttgagc agatgctcaa 180
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ggtcgtcca tctttccacc accaccggc ggcgtttgct catgctggaa agttcgtccc 300
gtaccccagc taccgctcgn cagctgcgtt ctggcagtgg ataccgacga cgccctcga 360
cacgaccaat gaccccgac actggcccga cgtc 394

<210> 50759

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-B1

<400> 50759

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ccgctcacc cccgagcgcc ttctgtctcc tctgtttact cctcggttgc gcgtccctcg 180
cgatcggagg agcagccatg gccggccacg tctcggcgcg cgtgaaggag aaccagccg 240
cggccaacag cgccgagtcc gacgggctcg gccgcttcgc cgtcgatgag cacaacaggc 300
gcgagaacgc gctgctggag ttcgtgcgcc cntggtggag gccaaggagc aggtggtggc 360
cggcacgctg caccatgtta cgcttga 387

<210> 50760

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B10

<400> 50760

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ttttttaatt ttctttttt ctttctattt tctgttcttt tttttttcaa ctttcttatt 240
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ctttctcttt ttttattata acccttcact aatcgttttt tcaatctttt ctttattttt 360
attttttttt ttttattctc cctttatctg ttttttaact cttcttttgt ttttttcttt 420
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<210> 50761

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B12

<400> 50761

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 cgacgatggg ggcggcgagc tgcggcgggc gcgtgctgcc gctggcgctg ctgaaccaca 360
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<210> 50762
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B2

<400> 50762

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 ccaaaaaaaaa aaataaaaaa aaaaaaaaaa accaaaaatt aaaaaaaagg ggcgcgcttt 180
 tttagggttc caaggtttta tcccgggggt tttcaacttt atagcttttt tttgggaacc 240
 catattccaa ataaagggcc ctatttttta aaccttttca ctgggaaaac ccttggggttt 300
 cccaattttt 309

<210> 50763
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B3

<400> 50763

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 attgctgtaa ataatatgcg ttgcttatgt gggcctgata ccaaaaagtc ttcagtaggg 240
 ggttttacac tgaaatttga tgttcacaag aagaaacaca caaatcgaaa agagcgaaca 300

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ggggaagaat caacatgggc actctctttc gattttaccc tattttggag caattgattg 360
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ctactgg                                           427

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<211>	434
<212>	DNA
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gatgacctaa	tggcccaagg	aatgcgttat	gctaatcagg	cccttccttc	tggatgctct	120
gccgggtggtg	tttctacat	acttcactgt	gatgaattcc	atggattggt	tccctcgaat	180
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ttgcctaggt	cttgcacctc	acacatggac	aaaaccctc	gtgctttttc	cccagaatg	360
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<210>	50765
<211>	425
<212>	DNA
<213>	Zea mays

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<223>      unsure at all n locations
<223>      Clone ID: LIB3079-025-Q1-K1-B5
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gggtaccctc	ctccaccagc	tgcagggggc	tacgcgcctg	ctcctccgcc	tgcccagggtg	180
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ccgcctgtgc	ctgtgcagga	gcctggctac	ggcgggtacc	gtcctccatc	tgctgggggc	300
tacccggcgg	ggtacgggta	cagcnaaacc	tgcttcgcgc	tctggcgtct	gaacagaccg	360

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gcctg 425

<210> 50766
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-G4

<400> 50766

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gccagcacac caagactact ggtaggcgtg gaaagaccgt tgggtgtctcc aagaagcgat 360
gagctctata tcaccctgag aaatcttggc cgcactaccg tgttggtttg tgtccaaaca 420
gtcctgatg 429

<210> 50767
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G5

<400> 50767

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agattgctca tcatacgcgc tttagtcaat ttgatgttgt ccaagatttc tcggatcacc 180
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aatgggatct tctacagaaa aacctacctg aatctatata cgttagagtc tatgaggaca 300
ggactgatct gctgagggct gccatagtcg ggccagcagg aactccatac catgatggtc 360

tgttcttctt cgatgtccgt tttccttgcg aatacccaaa gtgcccacca gtacgtgacc 420
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cagc 484

<210> 50768
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-G6

<400> 50768

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atgcaacaa gaggcctaaa atggggcatg tgattcacat gctcgagatg gacgatctac 180
tattacgaga tgataagaag cccgggagag acgttcatcc tcacggttca gacagataca 240
gctccaagga ggaagggagc atcagcaagc gcgagcacca ccaccaccac caccatcggc 300
acagatgata cacagcaagc gcgagcatat gaggattgcc attagagagt agcgacatta 360
accatgttcc ccacttgttt gccctcccgt tcaatctcac tggctcttga ttgtattata 420
tgtgagcatn catcattctg tgacgatact tgat 454

<210> 50769
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G7

<400> 50769

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cttgacccgg cagccagtca tggatgagga gtacgacgtg atcgtactag gcacggggct 120
caaggagtgc atcctcagcg gtctcctctc tgtagacggc ctcaaggttt tgcatatgga 180
cagaaatgac tactatggag gagattgcac ctactcaac cttaatcagc tctggaagag 240
gttttagaggg gaagacaagc ccccagcaca tctaggtgca agcagagact acaatgtgga 300
catggtgcc aagtttatga tggcaaattg gacattggtt cgaaccctca ttcacaccga 360

cgtagacaaag tacttgtcat tcaaagctgt tgatgggagc tatgttgtca gcatagggaa 420
gatttacaag gtccctgccca ctgatatgga ggctctgaag tcccctttga tgggcctatt 480
cgagaa 486

<210> 50770
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-G8

<400> 50770

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agtgtacgtt attgacgctg ccacagcatc gtcatttgaa gattccaaat ctgctctgga 120
gaagggttatt cgccatgaac atctgagagg agcaccactc ttgatagttg caaacaaca 180
ggatttacct ggagccattg atgaggaaga attggctaaa tttctgcata aagaactgga 240
tgagaggcca tatacatttc aggctgtatc tgcataatgat ggcaggggga tcaaactctg 300
catagactgg ctggtggaac aaatggaaaa aagcagacgt accgagacac tgcaggctcg 360
tgctggcgta gctggacaaa tttagaatga ggtgaatttg ttaaagaaca naggattgga 420
taggacggct tccttcgtat cgcgtaagca gccatttgcg gcatt 465

<210> 50771
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-H1

<400> 50771

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gtggcacctt gggcccagac cggagcatat ccacctcagc ctccggcata tgcattctggc 120
tatgcctacc ctgcaccgnc atgggtggcg cctacacatc ctgttgattc taaccctttt 180
ctttcgggtca attaccaaga tccacgcctt gctgccactt ctgttgctca aacagcaaca 240
tatgcacctn cccagcttc atatccccct tcaatatctt atgcacagtt tgcaaccccc 300

cagtcaattc agcatagcaa ttctgtggct tcaccgagca atggtcagat tgcaaataca 360
gcacaaatga atgtgaatca acaacaaaaa gattcttcgg cagcatctag cagaccatac 420
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<210> 50772

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H2

<400> 50772

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ctgggtgacc tacatcacgg actctccgca gcctcctcct gagaggatca ctttactct 120
cccagtgatc aactcagcat ccaacatagc aatagtgtcc actggtgatg acaaagcaaa 180
ggctgttcac atagcagttt ctgacatggc cgaaggctct gatgtccta catcactgcc 240
tgctagaatg gtccagccaa cggacgggaa gctgggtatgg attctggaca aggcggcggc 300
atcattcctt gactccaaga acgacgacga cgacgcttgc tacgatcgtc acgagtgact 360
aactctgagg atcgtgtgtc gctttgaaac gaatgaaccg aagtgtgtgt aaataggtgg 420
tggcgtatga tggaagacgc gctgttcccc ttttagctcg 460

<210> 50773

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H3

<400> 50773

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tatatcacgg aatctagcta tctgtctcat gagaagatca ccttaacact cccacatacc 120
tattcagact gccacatata tatatactcc aaccttcatt acttaatcca gaccatacac 180
ataacagaat cagacatacc actatcacat aaccctacta cattacatca tattagactg 240
gtcacaacta cacacttgaa gcatttactg ctcatgacc agtcacttat tatgatacta 300
gctcactaga tcgacaaaca tcacgatata atacttcatg acgataat 348

<210> 50774
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-H4

 <400> 50774

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 tgctggtagt gctactggca gtgattcatt acccactcct aacaaggtct tgcacatgc 120
 actccattat cgagttgctg gccatcagtc tagcattcat cagtttgtgc ccattattcg 180
 atggccacga atcattcctt ctggtttttg ctatggatta tcgcttggga ttccatcagt 240
 tgctcctcac cttggcaagg gaatactggg caagccacca atcattcctt ctggtttttg 300
 ctacggattg tcgcttgaga ttccatcagt tgctcctcac cttggtaacg gaatactggg 360
 caagccacca agtaataata cacccttaga tcaacggagc tcaactcaac tagtgcacgt 420
 acgggatcca caccagcata catgtcagca atcatgtggc 460

<210> 50775
 <211> 482
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-H5

 <400> 50775

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 gtcattcctc tgtagacagg cagagctctg gttacttggga ccttcagtct tttatgcaga 180
 ccatagcttc aagggaagga ggcagaccaa tgtcagagat ccgcaatgtc ttcgatcaga 240
 ttcgtcaggg gagaaatgca cgattggagg atttgcttct cattgaccgg tcacttatta 300
 tgagacgagc taatttgatt gatagacatc gggatatgag gcttgatgtg gataatatgt 360
 cctatgagga attgctggca ctaggtgaac gcattgggta cgtaaacaca ggacttactg 420
 aagaaaagat tttgagtaac ttgaaacaat ggaaatgtgt cttaaaatca tgggatgatc 480
 ct 482

<210> 50776
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H6

<400> 50776

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ccgtggcagc agtgcacgtc ggtggcagca ggagatggtg gggacggcgg aaggcggcgc 120
ggagagggcg gtgcggcggg ggggtggacgc cgtcggcggg cgcttggtcc tggacggcgg 180
gctggccacg gagctcgagg ccaacggcgc cgaccttaac gacccgctct ggagcgccaa 240
gtgcctactg tactaccgc acctcatgcg gaagggccat atggactacc tagaagctgg 300
ggcgaacatt ataacaca 319

<210> 50777
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H7

<400> 50777

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cgacgaggca cgcagccacc ggcgatggc cgacggctcc agcagcagcg gcggggcgca 120
gaacgggggt ggtcgggtg tgattgacta cggccggcgc cgcactacct gcggctactg 180
ccgatccttc gggcccacga gcctctcca cggatgtgg gctaacagtc tgaaagctga 240
tgactatcaa gctcttcttg atcgtgggtg gaggagatct ggggtgttctc ttaccaacc 300
tgagatggaa cggacatgct gccctcata tacgatacgc ttgaaagcaa atgatttcat 360
ttgttcaga gagcaagctc ggggtactta caagatacaa aggttccttg atggcgagct 420
cgatccacag attggaagcc cttagtgtaa ggcaagttca 460

<210> 50778
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H8

<400> 50778

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aggatacagc aagtcaaaca gctccaaagg gctgacaaac atccaagcaa atgccgcgga 120
ggagaccagc acaaggcgtg ctgcattgga ggcgtcgatt aacgaagtgc tgttccagat 180
cataaagttc gccaacgaga aaaaggacca cattcttgct atccctgaca ggattttcaa 240
tcacgagatc atgatcccaa gctcggattc tggattcgga tggaacacgg acgt 294

<210> 50779

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A11

<400> 50779

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aggggggatga attaggttca cgatcaagct ctattgtgtt ctaagaaact ttctgtgctc 120
tcccaatttt acattattag gaagcggatg aatatgcatg cagttttgtt gtttggaaact 180
agatgtgtat ggaagaaaca tgatcttttt tctaaaaaaaa aaaaaataaa 240
aaaaaaaaaa aaaaaataaa aatataggac aaaattatctt aaaagataaa aatattaataa 300
ctatatatat aaatattaat agatat 326

<210> 50780

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-E2

<400> 50780

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gcatgcgcgt tgccgcgacc cgagccgccc cgcgcgtca ccctccgagc gccttcctgc 120
tcctcctggt actcctcggg tgcgcgtccc tcgcgatcgg aggagcagcc atggccggcc 180
acgtcctcgg cggcgtgaag gagaaccag cgcgcgcca cagcgcgag tccgacgggc 240

CCGCCTGCTG

tcggccgctt cgccgtcgat gagcacaaca ggcgcgagaa cgcgctgctg gagttcgtgc 300
gcgtggtgga ggccaaggag caggtggtgg ccggcacgct gcaccacctt acgctcgagg 360
ccgtcgaggc cgggaggaag aagctctacg aggccaaggt ctgggtcaag ccatggctcg 420
acttcaagga gctccaggaa ttcagccaca aggg 454

<210> 50781
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-E3

<400> 50781

cccacgcgtc cgctaaaata tggatgagtg atacaacatg tgtgaacatg cttagacttg 60
gtaggtgtag tttctttcgc ttttgtaagg gcttttagaga ctgaggttta cttgaagata 120
caatacacat gtgtgttgag gaacaagtgg ccatgttttt gaacacagtg tgacagaacc 180
ttaggaatag gttggtggga acaaattatg gtagatctgg tgagactgtt actcgctact 240
tcaacaaagt gctttgtgct attgcagagc taccagctgc acttattagg ccaccatgct 300
tatagactcc atccaaaata gcatgaaatc caagatggga tccctacttt aaagtgtgat 360
attcagctat tcaatattct acttcaagaa ttttactat ttaaaccat aataccctta 420
attgtatttt ggctctgatt ggatacacat aggattgcat tggagctatt gatggcacac 480
a 481

<210> 50782
<211> 485
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-024-Q1-K1-E4

<400> 50782

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acggcgcgtc catagggctt tgaaagcaag taaaatcctg ttagatttct gatctaaacc 120
ctaagatttc tgatgttggg atggcaagga tatttccatc ggatgccact caagcaacag 180

ccagcagact tgtgggcaca tagtaaggtg gatacatggc taatgaattg catctgatgg 240
 ccttctctcg atcaagtcag atgttttcag tttagtatta atggtgtatc tgtatggtgt 300
 tctacattat ttccttccat aaaacctgng aactgtggaa agacaggaga tggaataagt 360
 tcaatgatca atcatttggg gatgactacg aactggaaga gctgatgaaa taccttgctg 420
 agttgctgtg gtatttgtgt gtgttatgag aaaaaaaca atggatcatc ctacaatgcc 480
 tgatg 485

<210> 50783
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-E5

<400> 50783

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 atgcgtcgcc gaccagatcc ttctcctgtc aggcgtggtg gcacacctcc tcgcaggaga 120
 ccaactgtctc cagttagaag gcgttctcct tcaccaccta ggaggcatag gtcaccgatg 180
 cgtccttcac ctaggagggg acgtggcagt ccttcaccac gcaggcgctc ccctgggcct 240
 cttaggcggc gctcgccacc tccaaggcgt ttgaggagcc caccaagaag gccaccacct 300
 tcacgtcgct atagtcgac tccttctcgc cgacccttc gctccagatc gatttctcca 360
 agaaggggac gagggcctct cttgaggcgt ggtangtcag gctcatcatt atctcgatca 420
 cctacttcac cgncaagaaa gggccaagaa ggtatcaagg agtcgca 467

<210> 50784
 <211> 457
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-E6

<400> 50784

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 gggacctcaa cgtcacgccc gccgccttcg cctcctactg cgccgtgctc cagagcgaga 120

tggcctacct ggacgacgcg cccgcgccccg tcgtcgaggc gcccccaagg ctgcactact 180
 gctacggcgc cgccggcacg tctgaccgcc acgacgaccc cgccgcggtc gcagcagccg 240
 ccgcagcctg ccaccgtcac agcagccagc cgcagctcac tgtctgatcg accggccctg 300
 caagcgtgcc cgaccggtgg atgcagccgt ttcttttctt ttcttttctt tgttgcctg 360
 gcgngcgcg ctggctggtg gtgtcgactc gtcttcttcc ttggtgatgg tctgtcttgg 420
 tacatatgtg ttggtcggtc ggtgctagtg agctctc 457

<210> 50785
 <211> 469
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-E7

<400> 50785
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 ctgggcccgc cgtcgctgcc gccctgcctc tccaccgtcg ccggcgacga gcaccactag 180
 gtgtttttga gtctgttgcg agtgttgtgg ccatgtccat gttcaatagg atcttcggga 240
 agcccaagga gcaggccaac tccaatgctt tggccactct ggacaagtta aatgagacac 300
 ttgatatgct ggagaagaaa gaaaaggtgc tggagaaaaa agcaaacgct gagcttgaga 360
 gagccaagga gttctcgaaa gcaaagaata aaagagcggc tatccaatcc ttgaagagga 420
 aaaaactnta tgagcaacan attgagcagc tnggnanatt ttcagttga 469

<210> 50786
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F1

<400> 50786
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattttca aaattaaata tccaacttac 120
 ttacacccat cttccaacat ctaattcttt tacaaccaat cctaaattcc ttcca 175

<210> 50787
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F2

<400> 50787

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 aggccttcag gaagatccat gtcagactcg tcaggagct ggagaagaaa ttcagcggca 180
 aggatgtggt aattgttct acaaggagga ttgtgaggcc acccaagaag gggtcagctg 240
 ttctgcgccc tcgcaccagg actctgactg ctgttcacga tggcatcttg gaggatgttg 300
 tctaccagc tgagattgtg gggaagcgtg tcagataccg tctggatggt tccaagatta 360
 tcaagatttt cttggacca aaggagagga acaacactga atacaagctg gagacctgca 420
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<210> 50788
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-024-Q1-K1-F3

<400> 50788

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 gccggccgga gaggcgatga tgacgcacca gcaccagcag cagcaacagg cgccggcgctc 180
 gtggttcgcg gactacctgc acgcggggcg cccaggcatg gggatggact acgacctgct 240
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 gctgctggtg gacacaggcg gtgaccgagg aggcttcgcc gcgcccacgc ccacgcccag 360
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<210> 50789
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-F4

 <400> 50789

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 ccggcggcgt gggaggagcc ggacgagttc aggccggagc ggttccgcga cggcaaggcc 180
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 atcgatggcg ctgagatcga catgaccgag agcggcgggc tcaccatgcc ccgggccgtc 360
 ccgttggagg ccacctgcaa gcctcgcgaa gccatgcgtc atgttcttca gcagctctga 420
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<210> 50790
 <211> 483
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-F5

 <400> 50790

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 tggggtgccc cccgaagctt aacgctaagg aactctcgtc tgaaagctac aattctcaga 180
 cactacgcct tttgtcttta gctagcatgt cagggtgttg ccaggtttcc attcctttgg 240
 gtacacatga taagtgcccc atttcagttt cgttgattgc taggcatggt ggtgatcggt 300
 ttttgttggc caccacacaa accatgtata caaccatcca agagcaagtg gagatactag 360
 cgaaatctag tgtttcaagt aaacaggcga tgaatgaaga agcagctgaa gctgctaaag 420
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 aac 483

<210> 50791
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F6

<400> 50791

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 cggctgtagg gggctacgcg ccgacgccta cggctggcct aatggaacca ggctacggcg 180
 ggtacccttc tacagcagct gcagggggct acgcgcctcc tactgcaggt gctcagatgg 240
 aaccaggcta cggactgtac cctactacgc catctgcaag gggctactcg ccgacacata 300
 cgactgtgcc tgtgcaggag cctgactac 329

<210> 50792
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F7

<400> 50792

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 tccatggctt ctctccacc aaggagagcg ggttccccgt gtcccaggag cttgtggagc 300
 agctgggcat atacatgctc ttcttcgaca gagccgggta tggcgacagc gacgccaacc 360
 cgaagcgctg cctcaagagc gacgccacgg acgtcgaaga gctcgccgac gcgctgcagc 420
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<210> 50793
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C2

<400> 50793.

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atgataagat ttactaaaa cacattctta tttttcaa atcattcatt taattgtacc 180
aattgatgca attttaagac tgtgccaaact atatgcacat cgtgctcgta taacggcaac 240
aactatctat gtgttaacaa tgtagcatta cttacactag atatctcgct aaatcgtagt 300
aattcatact tttgtcaata tgcattagac ttcaattctt tcaagagttt caatcttaca 360
aattactcct g 371

<210> 50794

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-024-Q1-K1-C3

<400> 50794

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tgatcgatat gatggtgggc gctatgtgga cagcagggat acttattatg gttccgggag 180
cgatcgctat gcaccggcag cagaacgcta ttctggtgac aggtacagtg gtgcagatcg 240
atatgcgtcc agcggctttg ccagagaaaag gagctatgag agagatggag ggaggtccaa 300
tggtggttac taccgtgatg aaccgagggg cactggtggc tatggcagag gtggttcacg 360
tggtggtggc gggtggtggc ctgctcgctt tggtgggagt taccgagata ggctgcttc 420
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<210> 50795

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C4

<400> 50795

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ggggaggaac tgcgtgacgc aggtggccaa gaagtcgctg agcctgaacg cccggggcgg 120

gctccacaac gcgcgcttct gcgagaagga cctgcagacg gcgatcgacc gcgaggcggt 180

gttcgcgtac gcggacgacc cgtgcagccc caactacccg ctgatgcaga agctccgcgc 240

ggtgctggtc gagcacgcgc tggccaacgg cgacgccgag cgcgccgcgg agacgtccat 300

cttcgccaag gtggccgagt tcgagcagca ggtccgcgcg gcgctgcca aggaggtgga 360

ggccgcgcgc gcggccgtgg agagcggcag ccccttggtc cccaacagga tcaggagtg 420

ccggtcctac ccgctgtacc ggttcgtgcg cgaggacgtc ggacccgagt acctgaccgg 480

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<210> 50796

<211> 481

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-024-Q1-K1-C5

<400> 50796

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cggcactgcc tcccactcct cctcctcgtg gccgccgccc tcgccgccgt ccctgctcgc 120

gcggcgctgg gcggcgggcg cggcccgtg ctgggcgggt ggaacccgat ccctgacgtg 180

agcgactcgc acatccagga gctaggcggg tgggcgctgg ggcaggcgaa gcaccagaag 240

ctggccgccc acgggctgcg gttccgccgc gtggtgcgcg gcgagcagca ggtcgtgtcc 300

gggatgaact accgcctcta cgtcgacgcc gncgacccc cgggccgcac cgtgccctac 360

gtcgccgtcg tgtacgagca ggtctggacc cgcacccgcc agctcgctn cttcaacccg 420

gtgccccgcg cccactgaaa ccatacgcac acgggtgggc cgaagcgacg ttctccgtca 480

a 481

<210> 50797

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C7

<400> 50797

aaaaaaaaa aacataaaaa ataaaacaaa aattttaaaaa aaaaaaaaaa acaaaattaa 60
aaacagaata aataaaaaaa aaataactat aatataaaaa aaaactaaat tcaatacact 120
aaacaaacaa tatacaacaa tataaactaa tat 153

<210> 50798

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D2

<400> 50798

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tgcgtgtgca aatgcccaca ctctcgagga agctgcaagg ctagaacagg tactaagcac 120
tggccaagtt cctgctgaat ttgcagtgcc caggcccgat gcaaacatgg ccgaagcttc 180
agatggagcc gagaagatgg acacagatgg tgagaaccaa gagggcggtg aggctgatgg 240
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ctgggtcatc cattgtctga gttaggtttg ccagttttcg tgggggtgca agaaagagct 360
agagccttgt tgccgcagaa ctccccctct atggatcgca tgtggatgct aacaagattc 420
tggcttattt ttgcagt 437

<210> 50799

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D4

<400> 50799

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tgttcagaag gttcttcaga attacaagaa tctccaagat attattgcca ttctgggaat 180
ggatgagctc agtgaagatg acaagttgac agttgctcgt gctaggaaga ttcagcggtt 240

gtgttttttt tgggaaagaa acatacaatt tttgtttctca ttctagtatc gtctacctat 180
gtcaaactac aatatgatag gacccttgct aaataattgt ttcgtttgct ggtaaaatat 240
acctaataa cagagagtaa aacaacaaga gcagcgaaaa cgcgcgacgg gcccgcctc 300
gtcgacgaag gcaatggcta cgccttcgac gacttacatg caaaagtgtg acttcgacag 360
cctcgaacgt aagaaagggtg ttcctttgca ctgaagaaga acacctgaag ttattgctgg 420
gattacaaaa gc 432

<210> 50802
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B8

<400> 50802
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gggtgagata gaggcttggtg ttctgagcaa gttatcaaca ataggagaaa ccttgactgt 120
tttaagactc gacggcctcg aaatcttcgc ctggaatctc caggcaattg gttctacctg 180
caagaatctg gtcgagattg ggcttagcaa atgcaatggc gttacggatg atggtatcgt 240
ttcgctagtt gctcgttgcc gcgacttaag gactatcgac gtgacgtgct gccatcttct 300
tacaaatgct gcccttgctg caatcgccga gaactgtaga aagattgaat gccttcggct 360
tgaatcctgc cctttcgtaa gcgagaaggg actagagtcg atcgcaactc tctgttccga 420
ccttaaggag attgacctca ccgattgtcg tattaatgac gcagctttgc agcagttggc 480
aag 483

<210> 50803
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H8

<400> 50803
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cgatggacgc agcgagcatc cgtgggcttc tctaccacga ggagcaagaa gggaagctct 120

gctccgtgca ctgcgtcaac accgccctgc aaggccccctt attatccgag ttcgacctgg 180
 acgcgctcgc cgtctacctg gaccaacctg agctcctggt gatgctcaag ggctacctaa 240
 gctctggtgc gggctacgct gctgcagggg acttctttgt ccagcgcgag ggctctcaca 300
 acgtctccct tggccaagat tacagcattc cagttcagca cat 343

<210> 50804
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H9

<400> 50804

cgtcgccgag ttttctccgg ccgagggcgg cgcgaccgga caaccagcgt gagcgcgacc 60
 ggcgacatga ctgcgaggaa ccagcgtgac cgcgaccgtg agcgcgcggc ggcgcggaag 120
 cccaacgcca agaactccca ggacgggctc accccggagc agcgccgcga gagggacaag 180
 aaagctctgg aggagaaggc ggccaagaag gcgcagcagg cagcggccgg cggcaccggt 240
 acctccacgg acaacaacaa gaacaaggca ggtggcaaga agtaggaggc agtggcgcg 300
 cgtcacctct gtacgattaa tcgatgcctt gagcttgtaa cttgttcgca tcctttagg 360
 tgcgatgctt gttgggtcat aaactctgat gatatcgaga tttggtgatc agaaatatgc 420
 gt 422

<210> 50805
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A3

<400> 50805

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 tcgggagcct tcatgtatgc gttggtgtca ttggagccaa gaggttgtga gccatcgagg 120
 acattttgac acaaccattt cagtttagaa aatttgatgc ggagctgact tcagtggaag 180
 agtgtagct tgccatttca gtgtatccaa ttgtgtcca ctgtagtcta tatcggtgtt 240
 tcataccttt gaccctgtac tagaacgaca cggaggatca ctgttaaacac cagagcgtca 300

tgcatgcttt gat

313

<210> 50806
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A4

<400> 50806

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tcattacaat ctcgtagttt tacttggttg gcttgacttc ctactattta taaacacaat 120
accagaagt ctttatgtgg tgtcaaacat agttttcact aaaatttcat aatcgctttt 180
ccactagcta cctcatattt ttgaaacgca acttgtgact ttacccaaat gaaattaatc 240
atatctccat tgcatactcc ccccataaat attcccaaaa tttctttaa gattgatttt 300
atcatcaata agcctcataa tatccac 327

<210> 50807
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-A5

<400> 50807

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ggagaacacg ttcagcgggt tctgcaggg cgccggcgcc gacaccgagg cgagggccgt 120
gttcgcggag gggtcctgt tctgcccgtt cctgttcggc aacttcttcg acccggccga 180
cccgttcccg ctgtgggagt tcgagtcgca cgtgctgctc gccgcgctcc gccgcggcaa 240
cgccaggacc accgtcgact gggccgagac cgactgcgag tactacctca gagccgacgt 300
gccaggtgga aggagatgag acgtggaggt gagcgngac gcgatgaagg tgatcgacat 360
ctgcgggctg tggcggggcg cgccggcgga cgccggggac tggcgctgag gccggtggtg 420
ggagcacggc ttcgtccggc ggggtggagct gccggaggac gcggagtga ggaaagt 477

<210> 50808
<211> 484

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-A6

 <400> 50808

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 tgggcagcgg caccagaacc tctgcctccg caggggtgctt gctggatatca ttacaatctg 120
 gtagtttttag tggttgggct tgacttccta ctattcagaa acacagtacc gagaagtctt 180
 taggtgggggt caaagatggg gtcgctgaag ttgcaaaagc gccttgccgc gagctacctc 240
 aagtgtggga aaggcaagggt gtggcttgac ccaaatgaag ttagtgagat ctccatggca 300
 aactccccgc agaatatccg gaagttgggt aaggatgggt ttatcatcaa gaagcctcat 360
 aagatccact ctagatcccc tgcaagaagg gcacatgacg ccaagcaaaa gggacgccac 420
 tcangatatg gtaagcgtag ggggtaccagn gaggctaggc taccaccaa ggttctgtgg 480
 atga 484

<210> 50809
 <211> 482
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-A7

 <400> 50809

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 ccgatcccaa taggatgtac cctagcccc gaccgtacac ccagtatggg aattcagtaa 120
 aaactgggtct tccctacggg agtaacgggt atgattccag gatatatggg cgatgtgggtc 180
 ttggtaatgg tatggataac aggtacaggc ccagggcatg tagtgataac tatggttatg 240
 gcaatgagag tcaggatgga acaattgagt taaacagagg tcctagatct ggccggttca 300
 agaaccagaa attgtacggg catactgtca ctattgctgt gaaagggcag tctctccctt 360
 ctagtgaaag caagaatgat agtgctgtgc ctgatagagc aaagtacaat agagatgact 420
 tccctgttca gtacgatgct gcaaagttct ttgtcattaa atcgtacagc gaggatgaca 480
 tc 482

<210> 50810
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-B1

<400> 50810

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tgaccgagca gtctactcgg ccagccggg gatccaagcg ggatggggta cttgagctcc 120
gtgatcggcc accccaccga tggatcctcc gtcagcggcg gcggcctcag ccagaatggt 180
agatttagct atggctatgc aagctcccct ggtaaaaggg catccatgga agacttctat 240
gagacaaaaa ttgattgtgc tgatggtcag atagttggtc tttttggagt atttgatggt 300
catggtggtg ctaaggtagc agagtatgtt aaagaaaacc tgttcaacaa tcttgtagt 360
catccaaagt tcatcagtga tactaaagtc gctatagatg atgcttataa aagcaccgac 420
agtgaattct tagaatctga cagtagtcaa aatcaatgcn ggtcaactg 469

<210> 50811
<211> 489
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-B2

<400> 50811

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gatgggaagc agctgcggcc aatgatacctt aagaggatta agaaccggac aaaggaatac 120
ccaatcaaga gcatgatccc agtcgcggag gaggtggtca gggctagga gattgccaat 180
gagggcgtct ccagactgct caaggttgtt cctgttcagt catgcaagtt ttgtcatgaa 240
gttcacattg gaaccacggg tcatcagatg aaaacatgct atggtttcaa gcgtatgatc 300
aaggacagac cacatgaatg ggaaccgggc aacttgaatg acatccttgt tcctgttcag 360
gctttccacc agaaaaatat gtttgagcat gagataaac atgaccagcg gttcgacttc 420
actcgctcc cagctgtact tgagctgtgc catcacgcan gtgcagacat acctgatgag 480

<210> 50812
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B4

<400> 50812

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cgcggtcgcc gccc aaagaa agacgtcaac tccaggagac aagatagtga gaactgaaga 120
gaaggatggg cttecgagaag cagatcctga gatccggcac cggccccaag ccgataaagg 180
gccagaaggt caccgttcac tgcaccggct acgggaagga tcgtgatctg tccaagaaat 240
tttggagcac caaggaccct gggcagcagc cattcagttt cagcattggg cagggttcag 300
tgatcaaagg atgggacgag ggagttatga ccatgcaagt ggggtgaagtt gctcgtatcc 360
agtgcacgcc tgattatgct tatggagccg gcgggttccc agcctgtgga attcaaccaa 420
actcagtgtc tgtgttcgag attgaagtcc tcagtgtcca gtaattcgc 469

<210> 50813
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B5

<400> 50813

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ccgctgccct agctccaaac agaattaggg aatacgggtca acctcccatg gctactgccg 120
tgtaggcgat ctgacagtcc acaaaaacct aagattcggc accaagtcac taaccgaagg 180
aaggtcgaga tgaggaagga tgtgatttga tctcgaatat caactacatc tgtctagcgt 240
cgagacacat gtgcggtagt gctaagttgg ttctgtcttt cagtttcttt ctatataccta 300
tttctgtgaa aatattttat gtgagtgatg taaactgatt gccagaatta atggatgttt 360
tgcagctacg ccagaagctg atggttgtgg gtaaaacatt tttgttctgt aatccccagg 420
ctagcaagtt tcaactaaac aaaggttcag gctttcgttg tttgcaaggt actat 475

<210> 50814
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B6

<400> 50814

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 gcctataacg cctcctatac tgtcccccaa aacctattat ttggcaccaa ggttttataac 180
 caacggaact gtcaaaaacc tgaatgcac ccatttcac tccaatatca actaattccc 240
 tattagccct gatacccata tacccaaaag ctcagcacca ttgacctttc acatcatttg 300
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 tggattactc gcacc 375

<210> 50815
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B7

<400> 50815

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 tggaaggaga tgagggtgc aacgtcctgg gaggacgttg agaacctggt ctggggagag 180
 ctgaaccggt accaggactc tgcagttcgc tcagcataac taaacaccag caaaaaaaaa 240
 aaaaaaaact ttctgaacat acgtgtatgt tgttgttcct ccgacgaatg taacttccaa 300
 atataaaaaa aaagtgtagg gaaaataacg aaggctcgac acggcatgcc cgtattttcc 360
 tatggctggt gataatattg agatccctga aatggttcta tgaaatgaac cgcagaccgt 420
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<210> 50816
 <211> 344
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H7

<400> 50816

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ccctatacaa agccaagctt atacgtgggt tctgccaaact ctactacggt caggaggact 180

gcagtcgtct gcatggaggc cgacatcacc cggctctgatt tcattatcac cgtctaccga 240

gaccactgga cctacctcgc ccgcgaggag gacctagtct gcgacttcta cgagctgatg 300

tgccgctacg ctggatgcta ccgcaggaac ggcagttcca tgca 344

<210> 50817

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G12

<400> 50817

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tgatgtacga tgattatcac gagtacttca agcgctcatt tgaggaaaac atcgctgcgc 180

acgtgcctca gggagtgga tgggggttaca actatcgatt gggggaaatc aggcatagga 240

gggcctgttg acggaccaag tgacgaggca agattgtcta atgattttga agttcattat 300

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<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G5

<400> 50818

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 tccggcgtct cggcgtccgg gcgctcctgg ctgctcaagg ggggtgcacct gcggcggcgg 180
 cgccggtggc ggccggcaggt ggccgtagg ggaggggtga gagccgatgg cggcgatgtg 240
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 agatgcgctg gttctgaagg gggattacga cctgatgtcc tctcaaagat gtgtacctcg 360
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<210> 50819
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G6

<400> 50819

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 cctgtctgtt gactacggca agaaatccaa gcttgggttc actgtgtacc cttcccccca 240
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 gcacactgat gtggctatac tgctggacaa tgaggccatc tacgacatct gccgccgatc 360
 ccttgacatt gagcgcccaa cctacaccaa cctcaacagg ctt 403

<210> 50820
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G7

<400> 50820

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 ctcatacgac agtgaatagt ggatggactc atgggccgct ctcgatgcta caggctcatc 120
 taccctgcc tctgaaccaa tctttctgct attgctgctg ctgctgtac tgctgtggct 180
 gcgaatgggg aacaggaagg ctacatcaac gctgacatag ctaacgttaa tctcctggca 240

gctgatatac catatgacag ataccacatg at

272

<210> 50821
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-G8

<400> 50821

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acggcggcgt gaagggttc gtgtccaacc tcgtccacgg cggcggcggc catggccatg 180
gaagcggcta cggccatggc catggaaacg gctacggcca tgggaatggc ggctacggcg 240
gcggccacgg gtaccctcct cccgccgccg ccggcgcgta ccctcatccg cacggcgcggt 300
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cgactacgg gcacacgggg tcgtaccaca ccagccacaa cagcta 406

<210> 50822
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H12

<400> 50822

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acaggtgcaa tagctcttat gcagttgcaa gataacttga cgaagtatat gagtgtgag 180
ggccagtaca cagaggagga acttgaaatg tacatggaaa accataagaa agtcatgggt 240
gattctctgt ggaagcttaa cggtgtgac atagaagcca cattatcca tgtctgtcaa 300
atggtacttc aagacagtaa tgccagaaag gaggaattgc gccttcgtgc taaaggctta 360
aaaact 366

<210> 50823
<211> 364

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-H2

 <400> 50823

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 ggagctctac ggtctgtgcg acgcggaacct ggtgctgcat cctattctcc agctcctgga 120
 aggtctacca ctaccgtctt ggcaccgtac tctgcgtaac ggacctgtgc gagagggacg 180
 actgcacgac gcacaccacg gtctggaccg acatgctgca ggagcggagc gcggagctac 240
 agaaagctga gccgatgtgc cagctggtgt agaatgagct gcaggacatg acagtggacg 300
 accgctagca gtacacaggg cctgctgtct agctgctgga acacagtctg caggccgtcg 360
 tgca 364

<210> 50824
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-H3

 <400> 50824

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 cgccgttccg tcttggcgct agtcccaagg gccattgttg tacttttctt catggagcat 120
 gtagcaataa cagccgggcta tgagttcaac atcaaagggtg ttctcgcagc tccaccaga 180
 actatgctct ttctaggaag gatttatcta ctataactca aaatgtggaa cgcttccttc 240
 acaatgttgt taacatgggt atccttgacc gtctgaaatt agcgtggaag ataatgacta 300
 ctgcaccaac cacacaggat acctgcaatg catacatcgc aaaacagagg cttaagatga 360
 tcctgatctg cgacaggtgt gaaatcagtg attaagcaaa gaaaaa 406

<210> 50825
 <211> 151
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-H4

 <400> 50825

<210> 50828
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-023-Q1-K1-G11

<400> 50828

gcgcgagcga gagaggtacg gcgcccgatc tggcggcgca ggcggagggc tcggccgggg 60
 ccggcaagtc ggcgccgaac atggggaggg gccgggtcga gctcaagcgg atcgagaaca 120
 agatcaaccg ccaggtcacc ttcgccaagc gccgcaacgg cctgctcaag aaggcgtacg 180
 agctctcggg gctctgcgac gccgaggtcg cgctcatcat cttctccaac cgcggaagc 240
 tctacgagtt ctccagcacg cagagcatgc caaaaacact tgaaaagtac caaaaatgca 300
 gttttgcagg gcctgaaaca gcaactccaga atagagagaa tgagcaactg aaaagtagcc 360
 gcaatgagta cctcanactg aaggcacgtg ttgataattt acagcggact c 411

<210> 50829
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E8

<400> 50829

gaagagggac gagggtaatc acagaggtct gcgacacgga gacctgggtc ccggtgatcg 60
 gaggaactga gctgaccatg atcctgacga caggactgct ctgaacgctg acgagccttg 120
 gccacaggac agactatatg atcatgcaca acatgggcct ggccattcta atacaagccg 180
 tcctctactt agcgtgata accagcttcc tcatggccat cgggcttcac atctacgcga 240
 gctagtagac ggccggaaca tgatgacata tacagactaa caggatgctc cgacggaggc 300
 atccacttca agatctgcgg ttccagctac ggtcgtatag gctgtctcta attctatgga 360

<210> 50830
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E9

<400> 50830

aaaaaaaaa caaacaaca aatcaaaaaa aaaaaaaacc aacaattaaa aaaagagggg 60
gaaaaaaaaa aagaaaaaaaa caacaaccaaaa aaacataact actaaaaata aacaaaccac 120
atactaaaca tctacgccct cctttatgac tcctttctta caaagtctga catctatctt 180
aacaatgcta ttctaactga ttagaaacac ttgcctatgt atgactaatc gcctagcatg 240
atcaaagttg aatatattgc cagacgagcc acccagaact ctatcacggt tgcccaatgg 300
atgcttcaaa ctctgtgtgc aacaagctac atgagatgca 340

<210> 50831

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F1

<400> 50831

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gcgtctactc atgacatcg c atcatcagac tcgagaggac atatgatcaa agcggggcca 120
gattaatgct gacctatcaa caagctatac caatgactac ccacactgat acacgacatc 180
attcatcgca actcaaacgt cagcgaacct tacactcttt caacaacata cttctgcagc 240
agcaagaact gtgcttgatg tactaacagg acatgcagag gctgacccat acttactcat 300
ctgtatcact tgaaaatatt gctcattctg atcaacttgt cccaacaagg gatcctgaaa 360
cacacttact atccatgatc gaata 385

<210> 50832

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F10

<400> 50832

gctgtacccc acaccactag gcactagtcc actacctaac gctacctgcc ttttcacgcg 60
cgtagtgccg caccgacacg ttgagctcgc gtccgtccca gatccgacgt gctcctccat 120

cgctcgcgca agatgaagat cacggtgcgg gggtcggaga tgggtgtaccc ggcgggcggag 180
acgccgcgcc gccggctctg gaactcgagg cccgacctgg tgggtgccgcg gttccacacg 240
cccagcgtct acttcttccg ccgcgaggac gcggacggga acgacctggc gggcgcgagac 300
gggagcttct tcgacggggc gcggatgcgg cgcgcgctgg ccgaggcgct cgtgcccttc 360
taccgatgg ccggccggat ggcgcgcgac gaggacggcc gcgtcgagat cg 412

<210> 50833
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F11

<400> 50833

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atgccattcg ctccgcatat tattcagttc cttgatgctc tgtacaatgg gaaggatatg 120
gatgatactg tgatgaagac tgcaataggt gtcttgggag atctggctga cacattaagt 180
gtccatgctg gccctttgat caatcaatcc acctcaagcc aggcattttt agaggaatgc 240
ttggcatcag acgatccttt ggtgaaagaa tctgccgatt gggcgaggat agcagtcagc 300
cgtgcagttt cgggttgatg ccacagttag tctcgagtct gcacttgcac cccatccaca 360
tgtcatcatg cctggggctt taa 383

<210> 50834
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F12

<400> 50834

atcaaacctc agtatgttga ccacattcca aatgctgac aagggaatgt aggacaagta 60
cttgaacaga aggacgagag ggatatgaaa tctgaactgt gtgttgatct tgaattaaac 120
caagttattg accgaaatgt aggagatctt tctggtggag agcttaagag atttgcaata 180
ccagttgctg ctgtgtataa tgctcaaate tatatgtgcg atgagccatc aagctacctt 240
gatgtgaagc ataggctaaa agctggacca gtcactaggt ccttgcttag gcctaacacc 300

tatgtcatcg atagggaaca tgatttcagt gtcttgtatt acttgtgcga cttcatttgc 360
 tgcctatatg gcaagccatg tgcttata 388

<210> 50835
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F2

<400> 50835

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 ggtgagtctg atgacaattt tacaaacttg tttcttgctg atggtaaata tcagaatctc 120
 tcgctgcatt gtgagtgtgt taaaaaaga tacaaaatgc tatagaaaaa aataaaacaa 180
 aacactcaac aatgcatgct aataaaaaat gatacaaaag gacaatagca ta 232

<210> 50836
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-F6

<400> 50836

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 gaccaagggc cgcggcttcc gcgaggacc taactcctcc gcgacccgcg actcgcgctt 120
 tggcgcgggg ggacgcgccg acctcgactc gcttggcggc cctggacca tccagtcaat 180
 tgaaggatgg attgtgttgg tcacaggagt tcacgaagaa gctcaagaag atgaccttca 240
 aaatgctttc caagaatttg ggcaggtcaa aaacctgcat ttgaatttgg accgcccgtac 300
 cggatttgtc aaggggtacg ctttgattga atacgagaag tttgaagaag ctcaggctgc 360
 aataaaagaa ctggatggag ctgagctnta taaacaaaga atgagtgttg attgggcatt 420
 t 421

<210> 50837
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F8

<400> 50837

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acttgtgcag aagctatggc agcaacaagt gcaggaactc ctcaggttgt accactgctt 120
atgaaagcaa ttggatggca aggtggaagt atactggcat tggagacatt aaagcgtgta 180
gttgggtgctg gtaatcgggc tegtgatgct cttgttgcac aggggcttaa ggttggctctt 240
gttgaagtac tccttggtat tcttgattgg cgtgttgggtg gaagacaggg gctctgtaat 300
caaatgaagt ggaatgaatc agaggcttca attggacgtg ttttggctgt ggaggtgctt 360
catgcttttg caaccgaagg tgcacattgt gcta 394

<210> 50838

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F9

<400> 50838

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttataaaaaa atacaaatta aaataaaaaa 120
aaataaaaaa taatgtttct ttttttgtgt cacctatttt aatttctctg cttttcattt 180
taaaactttt tttttgtgta acactatttt tattcccttt ttattctttt taaaacatat 240
ccctttttta acctttgggt ttaccacttt tatgcccttt cttttcaatt ttcttttcag 300
attctcattt tttatggaaa atgtcacgcc ctttgtcttt tcccattaat 350

<210> 50839

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-G10

<400> 50839

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gcgggggtcat cgtgctggcg cacggcttcg gcaccgacca gtccgtcttg aagcatctgg 300
 tgccgcacct cgtcgccgac taccgcgtcg tgctcttcga caccatgggc gccggcccca 360
 ccaaccgga ctacttcgac ttctcccgct actccacgct cgagggctac gcgctcg 417

<210> 50842
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D11

<400> 50842

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 agcggccatg gtgaagaagc ccaacggtgt cgccaaggcc acggcgacct ctgctgacgc 120
 ggcagcccag ccatccaagg agaatccgtc caccctggg ttggtcaagg cctcgaagtt 180
 taagaagaga aaggtcaagg ccaaccgtgc gaagcaggca gtcgctgcag cagctattga 240
 cgaggtcgcc cctgtaggtg caggcactgg tgatggcgat gcactctgat cagcggcttt 300
 accgcaacca tccgatgttg ccgaggcatt acttgtggtg caaacgccaa agtcaaccac 360
 ttttgctgag gcacacctg tggcacagac gcagaagcca gccactgatg ctg 413

<210> 50843
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D12

<400> 50843

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 aaagagaagc aatccgttcc tgaatgctcg ctccaaaaaa gtgttagttc tggatgcctc 120
 aactcagcag attggatgaa tggacctgcc aggccaaact ttctagactt ccaggggctg 180
 gactttgagg cagcatttgg gctgaggaga gcttacagcg aaggagacat tcagaacctt 240
 ggagccaaca cgcttcgacc agcagcaaact gtttgtgtga ccatcagtga cctcaagacc 300
 gaagaaagga agcaaaagct ttccaggtat aggaagaaga agatcaagcg gaactttggc 360
 aggaagatca tgtacgcgtg catgaaggct ctggcagaca gccagccaag agtg 414

<210> 50844
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-023-Q1-K1-D2

<400> 50844

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 ggagatctac ctgcactcgc tccccgtcaa ggagcaccag atcgtcgaga ccctcgtccc 120
 ggggctcaag gacgaggtca tgaagatcac gcccgccag aagcagaccc gtgccgggca 180
 gcgcacccgc ttcaaggcct tcgtcgttgt cggcgatggc gacggccacg tcggcctggg 240
 agtcaagtgc gcccaaggagg tggccaccgc catccgcggc gccatcatcc tagccaagct 300
 ctccgtcgtc cccgtcagga ggggggtactg ggggaacaag atcggacagc cccacaccgt 360
 gccctgncag gtcaccggca agtgtgggtc cgtcactgtg cgcattg 406

<210> 50845
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D4

<400> 50845

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 agtatccatc ttcaagtgc ggacacagta ctgcaggaag tcttccaaag cattggtcca 120
 gtagaagggt gcaagctcat cagaaaagaa aagtcattct ttggtttcat tgactactat 180
 gaccgcagat atgctgcact agcaatttta tctctcaatg gcagacaact gtatggtcag 240
 ccgattaaag tcaattgggc atatacaagt actccgaggg aggacacatc aggtcattct 300
 aatatttatg ttgggggatct ttgcccgga gtcactgatg ctactatgtt tgcatttttc 360
 tctggatact ctacttgctc agatgctagg gttatg 396

<210> 50846
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D8

<400> 50846

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 gggatggaag aaacatgcmc acggagctac ggacgttgct gatgagacaa cccccgcacg 120
 tgggcatggt ctgcatgtca cgaccgggat gctcttcacg aggaagagct tgctatcagg 180
 gacagtctta ccggatggta ccaagatctg tggacacggc ttactcgatt ccgaaagggt 240
 tgaactacaa gcggatgcag atgccatctc gttcagctgc agccagctgg acaccatcct 300
 gaggatgttt cggatccctc gggggtgcaa gaaggcatag caagtcggcg tcacgtccg 360
 gacatgctac gctg 374

<210> 50847

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D9

<400> 50847

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 gccgggacca ccgacggcga cgatgggagg cggcgagggc aagtccaaga aacgccgctc 120
 ttctacctcc tcagcggatg aagaaggggg ggaacggaag aggcgggaca agaaggagag 180
 caagaggagg agccgagacg acagggagga tgacgatgac agacacaaga agaaggggaa 240
 acacatcgac aggaacaaag gaaaagagag agattcgaag gataggcatt ccaaggagaa 300
 gacgagcaag agaaaagaca aggacgctgc cttcaaagaa atatccaagg atgactactt 360
 tgcaaagaac aacgagttcg ctacctggtt gaaggaggaa aagggcaa atttc 415

<210> 50848

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E10

<400> 50848

ggggaccagt tatgacagac gagtttaatc ctcaaaagga cacttatgtt ctgtgccacc 60

atggcatgcg ctcaatgcaa gtggctaaat ggttgcagtc acagggtttc aaaaaagttt 120
acaatgttgc ggggtggaatt catgcctatg cgggttaaagc cgactcctct atcccaacgt 180
attagaggat cctcatggtg acactttagc acggctgccg gctgggaact tctcatatat 240
cttaggcatt gacgttgatc aatgcttgaa ttcagagctc aattttatct ctcatactgt 300
gtatcagaaa gttttgggac tcctagggag gaaaaatata cagctatctt tgttaaaaaa 360
agatacttga gaaattgctt tattgaacga accgtttcat cagg 404

<210> 50849
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-E11

<400> 50849

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ccacgagagc aacatgggag gaggacacga catgcacggg cagcactacg gccacaacgg 120
cggcgtgaag ggcttcgtgt ccaacctcgt ccacggcggc ggccggccatg gccatggaag 180
cggctacggc catggccatg gaaacggcta cggccatggg aatggcggtt acggcgggcg 240
ccacgggtac cctcctcccg ccgcccgcgg cgcgtaccct catccgcacg gcgcgtaccc 300
tcacccgcac ggccggccac ggtaccctnc tcccgccacc taccccgcg actcggcgca 360
ctacgggcac acgggggtcgt accacaccag ccacaaca 398

<210> 50850
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E12

<400> 50850

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ccaccaccga tctggtctca ctgcatactc ctccctcgc cgtccaagag cgccggtccg 120
atgggtcgtc cgccgagcac cactggtgct ccggccttgc gggttctacc ttccgaggtg 180

gcggaaatgg aggcgcgctt gctgcagctc aacaacggca tctgcaccct cgccatgctc 240
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cccaagcagg tgtggaactg gtttcagaac aggcgttact cgcacgcggc caagaccacc 360
atggtcgtgc cgtctccacc ggctaagatg acccgctcgg tggccgatca ccaccagcac 420
g 421

<210> 50851
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-E2

<400> 50851

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ccatgatgtt ttcactcggg agggaaatga tcttgtcgtg actgagaaga tctcactggt 120
ggaagcactg actggctata ccgcacgtgt cactacgctt gacgggcgga gcctatcatt 180
gcacatcaac tcaataatcc atccaaagta cgaagagggtg atgcctggag agggcatgcc 240
agtgcccaag gacccccaaa agaagggaaa tctgcggatt aagttcaaca taatgttccc 300
ctctaggctg acttctgatc agaaggccgg gatcaagagg ctattgggtt cttaggccgt 360
cacctcaaat gacatcttct ntatgatga 389

<210> 50852
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E4

<400> 50852

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cctgagatga ttccaactga ccatgaccgg gttcacaaga gttctgcaat ttcagatgat 120
ccctttatag aggaaaaaat atattatcag ctacaagatg ctcttggcaa gttggatacc 180
aaaactcgac tatgcattcg agatagtttg ctctgttttg tccatagtgc aacagagaga 240
aagattgatg gtgataggag cactaacaag actaataaag atgaagatga agcttcggaa 300

gacgcatcta ctaggaaaac aaggtctcca aacaaggaag cagaaacaac cactaatcca 360
attgatcgta tagtggccca ttgctgttc cacagac 397

<210> 50853
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E5

<400> 50853

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ggagcttcta ggtagaaaaa atcgatgtat tattaagcac ctaactgac ttaatatata 120
caagcattta aggctagggtg ctgctttggc tggctatacc gcatgtgtca cttcattaat 180
cagtc 185

<210> 50854
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B7

<400> 50854

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aaaaatatgg ctaatgaatc agcatcttag gtgaaagaaa cagaatcata tcacgctccg 120
gacaggcagg aacacgagac agatgactat caacggttat acataactct agcactacgc 180
aatgggcctg atgagtacat tcatactagc aactggaatg cctatgcaag cgatgccgat 240
tgtaggtccc gtacatcaaa catttggaca cttatgaacc taggttatat ggccctggcat 300
acacgtatag tctacaccct gcagatgact acatcttgtg cctgacggac ttgaacatgc 360
gacctatttc a 371

<210> 50855
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-B9

<400> 50855

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gctccgcaat cggcatcgtc atgaatggta cgctcttggg tcagatagta ctgtaccaga 120
agcccgcctc aaagaaacag aagaaagaag attaagcaac atggagaagc tgcagaaagt 180
tcttctgggt tgtttaggat tctgttccaa cactcgctcc acatctgaac aaatggcacc 240
agtataggaa gttgttgga acttgttacg agaaaagaac atagtccgac tattgctata 300
taacaacatt tctgtgctgn tgtttttagc acttagcagt gtacatgac ttgaatagtt 360
catataactg cctttagata ttgactgc 388

<210> 50856

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C10

<400> 50856

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cctgtgctgt ttactgtcgc aatggcagga ggtctcttct ccatggagca cccatgggcc 120
tctgtttttg gcattctagg tacgctgctg cctgtgctgt gttgtgcacc aggaatgctg 180
gatttcgttc tcaccgtacg atacgacttg catgcatggc agcatgatcg atggcatgat 240
gcgtgccaaa cgattgctcg tcgtcgtcat catcatcact catcagtgtt ttttttacac 300
cgagtgaaaa tattcccaca ggtttactga cagaaattcc catatgatat gtatcttcct 360
ttggtaatth cctgcaggca acatcatctc atttctgggtg ttctcgcac cagtgttaagt 420
gcact 425

<210> 50857

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C11

<400> 50857

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378

<210> 50862
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C9

<400> 50862

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ctccgaagat tctcaagacg cccctgatgg ctccccgct cgctccgct ctgctcttcg 120
tcgtggccgt cctcgtggcc tccgcggcgg cgcaggagtc catggcgccc gcgtctgctc 180
cggcgccggg accggtcgtt ggcgcggcct ccgctccggc ctccgctgtg gccgtggtgt 240
cgtccgcact gctgtccctc cttatgacgg ccctgatgca gtagaagtat catactagat 300
ttgagcggga atttggttca gtgttgctat tctcattct ttttgatca tatatgtctg 360
cgacatttat atatatgaat aaagttggat gatctgctgc 400

<210> 50863
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-B3

<400> 50863

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aaaattgaca aggataaggt aaaagcagct ttggagaagc gaaggaaatc gaaaggtggt 120
tttgccacga aggtaaatgt gattgatgat gatgatctac ttgagagaga gctagaacaa 180
ggtgttgagt tggctgttga gtttgagaag attaataagc ataagaagca gaactcgtcc 240
gatggtagca tgcattccacc agaccttgaa aacgctgacg aattaatgga gaatggccac 300
catgtcaagc agagtctacc aacgacagct gaagacatgg gctgtccgat ggacagtaaa 360
gaacgacatc ctncagcact tcataagcaa aatgat 396

<210> 50864
<211> 408

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-H9

 <400> 50864

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 gagctcaact acccgtcgct ggtggtgaag ctgctgtccc gcccggtcac cgtccgccgg 120
 accgtgacca atgtcgggaa ggccagctcc gtgtacaggg ccgtggtgga catgcccagc 180
 agggccgtgt ccgtggtggt gcggccccc acgctgcggt tcgacagggt gaacgagaag 240
 cggagcttca ccgtgacggt gcggtggagc gggccgccgg ccgtcggcgg cgtcgagggc 300
 aacctgaagt ggggtgtcag ggatcacgta gtccgcagcc cgatcgtgat accgccggcg 360
 aaggccaccg cgtaggcgta gctcccagcc caaatgccca attgatga 408

<210> 50865
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-A1

 <400> 50865

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 gcactcatgg ctccaggcga tatatgaccg aatgcaggct tgagggatag aaccatcgat 120
 aacaagcatc gagcatcttc tgattaggta tcttctgcag gcttttttac gttcaagaga 180
 taaattaaag cctctagaac tgaacggtgc atatatacaa tgttggacgg caggaaggct 240
 cttgattgct gatctagcat gatcgttagc ctgcggtatc agaaacacga ttgactcaga 300
 gcatttggtc aatgagatct gagaggcttt aaat 334

<210> 50866
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-A11

 <400> 50866

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gggctgagga agaagagcag gaagatggca agaggtctga tgatgaccaa cagtatgggg 120
 aggatgaaga ctaccatggc gaagaccaat atgataaaca ggtgaagcat gtacatgcca 180
 acggggattt tcaacacctt ctaaaatgaa acttctggca acgcttaa at ccctaaatgg 240
 ggagatactg gctggaattg gtggaagttg ggggtgctgag aagcttgacc ctcgggcgta 300
 ctgaagttgc ttctgtctgg atcacctttt ttttcgcatt atgtgtgcta tactctgtaa 360
 attatcaaac tggctttctc aatgcctatg taatgaaccg ttgagtga 408

<210> 50867
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A2

<400> 50867

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 gaccatagcc ctttctattc tgaagcaggt tatggaggag aaggtgacct caaacaacgt 180
 cgatattgcc aaggttgctc ccaagtacca cctctacacc cctgccgagg tcgaagccgt 240
 gatcgcgagg ctgtgaaacg ctttcggagc tcgtgttatt catgtcatca atcggttaata 300
 gacgatcctt gtacgaagcg tggacatctt ttgttcttga ttatggctgt catcgctactc 360
 tgttgttaac tccacaagga cagtcgatgg tactttgatt c 401

<210> 50868
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A3

<400> 50868

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 ttgtcgtaaa cctcaagcgg cagcagctgc agaagacgcc gccgccgacg ccgcctcgtg 180
 cctcagttgc tatcaggagg aagaggtacc cagctaaccg gccctgctcg agtttcccaa 240

gcttcctctg ctcaagtttc agcagcatca ggcacagttt cctgcaatca cacaagtaca 300
 ctgtacacgt acgcaggctg aggctgatga ggttgagagc cggagcagag gccatggaga 360
 tggatgaacct gaagctctac ctggag 386

<210> 50869
 <211> 223
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-A4
 <400> 50869

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 gcatagctgg gtacctttta acttctgttt gtgggatttg ctagagtgat ggtttcgata 120
 tataggggga cttgaatgtc tggaatgcta cggataacg cacatttggg tgcaatgtct 180
 gttgcattgc tgtctgaatg acatcgttgg tacatttatt ttc 223

<210> 50870
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-A5
 <400> 50870

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 ctagtatata gaaaaaagca gaagagatac ggggatgtct aagacggcgg gcgtcggcag 120
 actcggagga gccggggcgg cggacgcggc gcagcagcag cagctggcgg cgggtgatgc 180
 tgcggtggcg cgggcggcac ggcccatcga gacgctgctg ggcgcggcgc cgctggtgct 240
 gtgcgtggcc gtcattgccc ttatgctacg tgaccagcag agcaatgagt acggcaccgt 300
 aggctactcc gacctggggg gcttcaaata cctcgtctac gccaacggac tgtgcgccga 360
 ctactcgtg gcgt 374

<210> 50871
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A6

<400> 50871

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gcgcgacctc aacccgagcg ccttctgcgg gatggactcc aagatgggcg tgctgatgcg 120
ctacgtgcgg gcggcgctcg cggacctggg caaggaggag gactcgctcg actgtcgacg 180
tcacctacta ccggagctac aacgaaggca cccccgcat gcacgccgac gtattcgacg 240
agctggagca gatggcgctg cgcaagtacg gtgcgctccc gcactggggc aagaaccgca 300
acttcgcctt cgacggcgtc atcgccaggt acccgcgtc agcgcggtt ctgtacgaga 360
acgacaggta cgacccggac 380

<210> 50872

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A7

<400> 50872

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atccagcaat ccagtaacg gatgctgagc gtgagtcaac aacgcacgac ctttgaggga 120
ttaaaactga agccgaaaca cctgcagatg aactgtcgg cagcgctgta tatatactca 180
gaggatatca aactacaaa gatcccatct taccgacat gatgcagagt accaagcttc 240
ctgtgctcaa gtacatgtag catcaatcac agttgcctgc aattacaaa gttcactgta 300
cacgtacaca tgcagaggca ttacaagttg agagccggag cacaggccat ctagat 356

<210> 50873

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-A9

<400> 50873

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ctaactgaac ccatggcgct ctccgcgct cgccggctct ccaccaccgc gtcctcctcc 120
tccgtcgccg acgcgccgcc aaagctctct tcgctgttcc agaaccgaa gcctcgaccg 180
ctgcctgtcc gcggcgctga ggagccgcgg cggggggcca ggcccaggcc gaggcagccc 240
tgaggaggagg aggcgggggc gctgctgctg cggctccaca aggggaggta cctnccgggc 300
cccgacctct cgtcggcgcc gcacgctgtc tcaccgacg ccgtcaagac cgccgccgag 360
tggttcgggc atgaccacca gcccgctgcc aaatggctgt caggaggatga 410

<210> 50874
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B10

<400> 50874
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gaatataaaa aaacaaataa aaaaaaacac atacaatcta agaaataaaa catactatag 120
cagaacctgg attcaaaca ttccatctaa cataatacac aataacaagt tatacattct 180
tgacgttaat gctgtttatt ttct 204

<210> 50875
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B11

<400> 50875
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actgaggcac gccgagaaca gggcgatgat gctggaggag atggtggata aactagagtc 120
gcaatgcaag gcgctgtctg agacttcaga agttctgaag ctgcaggccg gagctagcag 180
ggcctctttg ttctgctcga tccagtttgt gctgctgtgc atagccattg ggaccctcct 240
cgttcgcttc ctgtcctctt ctccggagat tgtacctact tgagggttaga gaattatgcc 300
agtcagcctt tatgtaggcg ttgttgaacg gttgtttact gtaacttatt agggcatcaa 360
tcgccttaca gattttcggt ttttgtacca tcaactcgat tttgctagta atttctttat 420

gaata

425

<210> 50876
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B12

<400> 50876

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ccattactga aatcctcaag aaagttgact tcaacacggc aactttcagt gacatttctga 120
agaagctcga caatcactac aaaatggatc tgaccccaaa gaaagaagcc atcaaagtta 180
tgatccaaga cgagttgacc aagctatcag aggaggatga agaaggagag ggagacgaag 240
acgccgggaa gaaacagcag cagcctcagg cgcaggagat cgaggcatga gggatccgcg 300
gaaccccgtg gctgtagtag ccaactgttaa ttatcctgta cttagtgcgt atgtgtcgcg 360
tgtacaggca tcctttgttg atttcagcca ccaacttgag aacctcacc cctgattgtg 420
tatgctaa 428

<210> 50877
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H8

<400> 50877

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catggctgat caccaccggg gtgcgacggg aggtggcggg ggctacggcg acctccagcg 120
cgggggcggc atgcacggcg aggcgcagca gcagcagaag cagggcgcca tgatgacggc 180
gctcaaggcc gcgacggccg cgaccttcgg cgggtcgatg ctggtgctgt ccgggctgat 240
cctggccggc accgtgatcg cgctcacggg ggccaccccc gtgctggtga tcttcagccc 300
ggtgctggtg cggccgccat cgcgctggcg ctcat 335

<210> 50878
<211> 393
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F8

<400> 50878

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ctcttcctct acatcaccat cctcaccgtc atgggctgtt ccaagtccac ctccaagtgc 120
gccaccgtcg gcatccaggg catcgcttgg tccttcggag gaatgatctt cgcgctcgtc 180
tactgcaccg ccggcatctc cggaggacac atcaacccat ctgtgacttt cgggctgttc 240
ttagccagga agctgtccct gactagggcc ctcttctaca tcatcatgca atgcctgggt 300
gccatctgtg gagctggagt ggtgaagggc ttccagcagg gactttacat gggcaacggt 360
ggtggcgcca atgttgctgc acctggctac acc 393

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<210> 50879

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-G10

<400> 50879

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gtggtggagg tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gcccaagacg 180
aaggcgctcg agctggtggg gcgcttcttg gccgctctcg agccggccgt gtccgtgcag 240
ctcggcgacc acggtcacct cgcctactcc cacaccaacc atgcgctcct tccgccagg 300
tcgttcgcgg ccaaggacga ggtgttctgc ctgttcgagg ggggtgctgga caacctgngt 360
cgtctgagcc agcagcacgg gctgtcaagc aaggg 395

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<210> 50880

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G11

<400> 50880

<210> 50883
 <211> 309
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-G6

<400> 50883

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 gcaccgacgc caagaggaac gccagggact cccatgtgcc gatcctcggc cctcttccaa 180
 tcgggtttgc cgtgttctc gtccacctgg ccaccatccc tatcaccggc accggcatca 240
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 actggatct 309

<210> 50884
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G7

<400> 50884

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 cccgccgcgc cattgtccag gtctcctacg ccatcggcgt gcccgagccc ctttcggtgt 120
 tcgtggacac gtacggcacc ggcgcgatcc ccgacaagga gatcctgaag atcgtgaagg 180
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<210> 50885
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G8

<400> 50885
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 aatgtccgcg acaaaggtta cctttccttt agtttggacc aatacctgct gcagccaccc 120
 tctgtaccgt gagtctgagc ttatccagga gaactacctt ggtgtgagaa atgcaacaca 180
 gaggaagcta ctggatgagc tgggcatccc agcagaagat gccccagttg accaattcac 240
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 tgactacctg ctgttcacg 320

<210> 50886
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-022-Q1-K1-H10

<400> 50886
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 ccagaggcca gaccctttc ttcaccttc ttccatcgc aatcgcaagc ccccggtcc 180
 ggcgctcggc ggtcgccag gttcgggaga tcaattcgtc gcggcgagga gggaggggt 240
 cgccgctagc gcgcggcact tggatgagaa gggcaacggt ggaagaggat gcggaaggcg 300
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 gagttttccc g 371

<210> 50887
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-022-Q1-K1-H11

<400> 50887
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 ccagaacttt ccgacttctt acctcgcgtg tgctgctcat cgtgttgac aacattatgg 180

cttagagact atagtagcag atagtttagt agaaggctca gtttagcagga ttgttgcaag 240
 aaaaacagca gaaagcaggt atcctgcaat ttttttatca gaagttccta gcaatcaagc 300
 aagaaatgat catgaaacag ctgagaagct taagtttgctc atttatcaaa ggcccaaagc 360
 attccaaaat ggaagcgctg attct 385

<210> 50888
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-H12

<400> 50888

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 tggcattagt atcaatcttg tcgaagtcac gtggaaatca aaactcaagg cacagttccc 180
 tagtccaaat gaatattcat ctttcatggg tgatttctcg actgcaactg gaattgcaac 240
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 aaagatcacc cccaccgttc tgttgctgac tgggtgttga ttcttctctc tgattttggt 360
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<210> 50889
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H2

<400> 50889

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<210> 50890
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H4

<400> 50890

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cgaccaggcc gtcgagctcg cgcaccaggc ggtcttcttc aaccagggcc aatgctgctg 120
cgccgggtcg cggacgttcg tgcacgagcg cgtgtacgac gagttcgtgg agaagtccaa 180
ggcccgcgcc ctgaagcgcg tcgtcggcga ccccttcattg gacggtgtcg aacaggggcc 240
tcagatcgac ggcgagcaat tcaacaagat cttgcggtac gtccagtccg gcgtcgacag 300
cggtgccacc ctcgtcgccg gcggcgacag ggtaggcgac aggtgcttct acatac 356

<210> 50891

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F7

<400> 50891

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aggagcttgt cctaattgctg caaaaggctt ccgtctccgt cgaagagatg gcagggttcg 180
tttacaatcc gttgagtgga gaatggtccc tgtcagatga tatcagtgtg aactacattg 240
cttttggcgt caagaagggt gaagcatcat cgacaaatgg cagagatgca agtttatcat 300
agctgaagaa aaacacgtga ccttgaattg tcgggcatca ttttcagagg accaattcat 360
gtcactgaaa tcttactgct aaggatgca 389

<210> 50892

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H5

<400> 50892

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taacttggaa gaaggaaaag tactagacct tgatgggaaa atgtggccag atgcttctga 120

tactgatgct tcctctcact ataagcttcc gttctcaaga actgtctaca ttgagaaaac 180
 tgatttttcgc cttaaggact caaaagacta ctatgggctg gcccctggta aatctgtcat 240
 gctaaggat gcgttcccca taaaatgcac agacgttata tatggtgata ctctgatga 300
 tattgttgaa attcgagcag aatatgatcc tttgaagact tctaaactta aggggtgttct 360
 gcactgg 367

<210> 50893
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H7

<400> 50893

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaact 120
 taaaaaaaaa aaaaaaaaaa aaaaatcttg attttccagt cttaatttaa ataaattaca 180
 ataagcaata acataaaata acataaaaaa aatggatatt ttaacaaata cacattttga 240
 acgaacaaca tttaaaaaac taaaattata taaaaaccta catatgataa ttcacaattc 300
 atgtttttta acatatatca cacattgttt acattaaaaa atacactatt gcctactttt 360
 taaacattca cacaaaacat ttatatttta 390

<210> 50894
 <211> 299
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-D6

<400> 50894

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 tcttcgtcgt caaggttccg gcggttcca gtgatgtgtt cgccacagaa cgagcagcac 180
 ctgctgcagg agcaaact taacaacaat gctcgtctc cagagaagag gcagcgggtt 240
 ccgtcggcgt ataacagatt catcaaggaa gagatacgca ngatcaaagc gaacaaccc 299

<210> 50895
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D8

<400> 50895

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ctccttcata cgacataata tctctattat agcaccaact aaaaacaaac tactggccgt 120
tttacaacaa cgtgactact aaaaaaaccc tgtcaccaaa caaattaatc ttgtagcaca 180
tcatectttt ttcagctgct gtcataacaa agaagacgcc accaatgac gttcttaaca 240
acagctgagc atgcttaatg aataatacga cccgcgctgc agcgcacatc taaccgcggg 300
tgttgtggtt actaccagca gaatcaccac tatagtcagc agcgtactag cgcccgttc 360
ttctgcttcc cttcccttct ttgtcacc 388

<210> 50896
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D9

<400> 50896

cgaacgccgg agctcgacat ggacgaccga cgacgcacgc ggagatccgg cgtactgcaa 60
atthttgaaaa ctgaactgta agatggcatc agcagagctt tcccgtgagg aaaatgtgta 120
catggcgaag ctcgctgagc aggcggagag gtacgaggag atggttgagt tcatggagaa 180
ggtagccaag actggtgact cggaggagct cactgtggag gagcgaaacc tcttgtctgt 240
tgcatacaag aacgtcattg gagcccgcgc cgctcatgg cgcacatct cctccatcga 300
gcagaaggaa gagggccgag gcaatgagga ccgagtaaca ctcacaaagg attatcgtgg 360
caagattgag actgagc 377

<210> 50897
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E10

<400> 50897

cccacgcgtc cggcccatgg ctctgtctcg cccgcgacc cgcgaaagag gtgtgcgggt 60
tcgtctcgctc gctcgcgcct cgccgactcg tgggggtgcc aattaactgc gcggggcagg 120
ccggcgggtg gctgctctac tacgcgcttg tggaagagga gatccagggc tccgagttca 180
tctacatggt cgacgacccg gccgtctcca gcgtgatact ggggtttgat gctcccagga 240
a 241

<210> 50898

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-E11

<400> 50898

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tcttgctgcg gcggcaagtg cggttgcggc tccagctgct cctgcggcag cggatgcaac 120
ggctgcggta tgtaccctga cgtggagacc gccgccacca gcagcgtcaa gaccacggtc 180
ctcgccgcgc cgaccaccaa ggccagcgcc ggcggttcg aggcggccac cgagggcggc 240
ggctgcgact gcaacacctg caagtgcggc accagctgcg gctgctcctg ctgcagctgc 300
aactgagctg gcccggccccg gcgatggcgc acgagagtcg agaggaggag gacgactacg 360
aggcgtataa atataatagc g 381

<210> 50899

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E12

<400> 50899

tcccactcgt ccgcccacgc ttccggtcta tgtgggatcc ccatctccaa gaaagtggt 60
gctttcagaa aatttggtgc atgctgctgt acggaggaag tctgttaaca tggttagatt 120

tctgctgaga tacagaccaa acaaaaaactc caaggggact gcacagacat acttatttat 180
acctgatgct ctgggcccgt caatgattac cccctccat atagcagctg ccactagtga 240
tgcagaggat gtgttgatg tgctgaccga tgatcctgga ctgattggaa ttagtgcttg 300
gagcaatgca cgggacggaa catgttttac ccataagat tatgctcggc agagaggcaa 360
tgatgcttac ctgaatctgg t 381

<210> 50900
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E4

<400> 50900

cccacccgtc cgattacctg cctatacaga ctaacaggag ttgttttcgt aaaacgcgtg 60
ggaatctaca aagattgtac tctgtgctgt attgctgtgg aatgctctac ccctgtaaca 120
gtgtctaagg taactgcttt tgcccatggt ttagggcttc aagagataat ggtaattcct 180
tgtctattgt tgtgatgac ctaattttat ccttacagt ctcactcttg tcttcagaa 240
ggaggagccc tttcccatcc ccgagaaggc gtgagagctg ttctccatct cctaggaggc 300
gcaatagtcc acctccatca cggaagcggt acagaagaaa gagcagtccg agtgtcatta 360
gctctccagt tact 374

<210> 50901
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E5

<400> 50901

cccacgcgtc cgcccacgcg tccgcagtcc ctgagtgcc gataacctga gaaagtggga 60
aagaagtcaa acatgacaat actgttacat ggttggcctt ttggaacgat ccaattaacc 120
caaaggatgt caagtatgtt ttctggcag caagcagctc actgaagggg caaagtgaca 180
aagagaagta tgagaagtcc agaaaattga agggtcatat acaaagaatt cgtgagaatt 240
atacaaaaaga tttcaaaaac aaagatgtga cgaggaggca aatagctgtg gcaacatacc 300

ttatcgataa actagccctt atggctggca atgaaa

336

<210> 50902
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E6

<400> 50902

gcgcccgcgag ccacagctag caccaccacc ttgcaccgca cccgcaccga gacgaacaga 60

tcgaccatgg ctgccggcgg cgacgacacc accatcgcg c aggtccacag cggcatcgac 120

agcagcaaca agacgctgct caagaagcga ggcctctac 160

<210> 50903
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E7

<400> 50903

cgctacctc tgcgggctgg gcatcgggga cgacggcgtg aaggagatag gtgggcgccc 60

cgtcgcctgc gccaaagtga aagccatcac cgaagcggag ctcaactacc cgtcgctggt 120

ggtgaaactt ctgtcccatc ccatcacgt cgcgcgacc gtgaccaacg tcgggaaagc 180

caactcgggtg tacaaggccg tgggtggacat tcccagggcc gtgtccgtgg tgggtcggcc 240

cccgtgtctg cggttcgcca gggcgaacga aaagcagagc ttcaccgtga cgggtcgggtg 300

gaacgggccc cgggccgtcg ccggcgccga tgggaac 337

<210> 50904
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E8

<400> 50904

aatggcccca tccaccact cattctctcc tacattccac aactctatat acctcactac 60

ccacaccctc cataagaaca gttatttatc ctaaccctaaa cataatccat aacactatca 120

ctacattact aactctaatac cacataaaaa caataactac atcattcaca ttacgaatct 180
 cattaacaaa ataacacaca cccacttcct tctacaaaac cacaacttac atccccacta 240
 attaaacact tattcttcta catcctatac taatatttta aacacccaaa aata 294

<210> 50905
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E9

<400> 50905

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 aggggtccacc agttgcatct gcagcatcaa agcgtaagaa aggtgataaa aataaagggga 120
 aatctgaaat gagctcaatt ggggagttat tgggtcatccc attcctgtca aagtttccta 180
 taccttctca tgggtgaggat gcatcatcag tagcagtgcga gaattatttc ggtgttttga 240
 tggcatatgg aggcctccaa gattttctga ctggaaagaa agatttgaca attacattga 300
 tcaggaaccg gattctccca ttatattctt tggatccttg cagcatgcag cccatatttg 360
 atttcaacgg ctaattgggt tattgggtcag cttgcgatat g 401

<210> 50906
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D11

<400> 50906

tgagaagggg atgcaacaca accagaagat caccttcctt ggtgaagctg atgaagcgcc 60
 tgatactgtc actggagaca ttgtattcgt cctccagcag aaggatcact ccaaattcaa 120
 aagaaagggg gaagatctct tctatgagca caccttgtct ctgaccgaag cactatgtgg 180
 gttccaattt gttcttacac atctggacaa caggcagctt ctcacaaat cagaccctgg 240
 tgaagttgtt aaacctgacc aattcaaggc gattaatgat gaggggatgc caatttacca 300
 gaggcctttc atgaagggga agctgtacat ccatttcacg gtggagttcc ctgactcgtt 360
 ggcaccagag cagtgcagg ctctcgagac agtact 396

<210> 50907
 <211> 249
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-F3

<400> 50907

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 tanaggagag ctgtctatca ttatattaaa gaacatgggt aggaaacttt acacacacat 120
 ttggttacaa gatcaccctt gaagccaaag ataactaaac gaccttgact aacaggactt 180
 tgggtacttg tggattaga ctgttatttg gctgggtcat aatccatatt cttgcangat 240
 ggattcatt 249

<210> 50908
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F5

<400> 50908

aaaaaacata caataatata ataacactta aaattactac aaaaaaaaaa aaaaaaaagc 60
 caacggaaaa at 72

<210> 50909
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F6

<400> 50909

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 agaccgtagc tagggtttga ggcgccgggc tgcggtggac gagatgtcga cgccggcgag 120
 gaagcggctg atgcgggact tcaggcgcct gcagcaggac ccgcccgcg ggatcagcgg 180
 cgcgccgcac gacaacaaca tcatgctctg gaacgccgtc atattcgggc cggatgatac 240
 gccgtgggac ggtggcacgt tcaagcttac cttgcagttt acagaagatt acccaaacaa 300

<400> 50912

ccgntttctaa ttccccgtctt acccaactcat cctccacac gtccaantca aactataatt 60
 tttaaaattc ctgtcnncca caagaatttt gttaatttta aaaaagacta gggctccaac 120
 aancttaatn acttctctta attactatct atcaaagaat ttctctttta ccgtcatctt 180
 cacaaaccta atttaatttc atacaacaaa aaaaaaattt cctccctttt taaatttcca 240
 atttatatta cccttccttc caacaacaaa accttttttt 280

<210> 50913

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B2

<400> 50913

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 acatgtcctt cgatgaaaaa tttgtgaaga gcaaggaggt ggatgccttt gaaccatcct 120
 catcaaggaa gagacctttc agcgacgtca accgaaaagg tgcaggtgct ttacctaatg 180
 gcagtgttac agaccagcat gatgagtcg aggatagtga tcagaagata tgatgctctg 240
 ctctctgtc taatttttag etc 263

<210> 50914

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-B3

<400> 50914

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 gattccacct cctccttctc tcaactgggtc tcatctacat aaagatgaca tctccttcta 180
 ttacaaattt gttaccacca atgaagtcaa ttccttttta ccatcctcat ctattaacga 240
 cctttcatcg acgtcaaccg aaaagggttca ttgctttac ctaatttcag tgctacatac 300

<210> 50915
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B6

<400> 50915

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atcggaccag ataatatcaa ctagtgtttt gccttagcct gcaattagct ttacttggtg 120
gtcctcatca tcattcatat ttcatttcac taaaggaaat gataaggcag actgggattc 180
ctgcaatctt tacggacttc tgtgaagaag ctgcacatct agcatcctgc tgcataagct 240
ccataactgg tcaaccctt aaaattccaa tccaggtaaa tcctttcagg cagccagttg 300
cagcggaaaa caatgcatta tacgtaccat gttattcaaa ttgctttgtt tttgggatgt 360
aaaattgccc tgtcaccagg aagtatattt agagattgat ttgtcaagaa atggaat 417

<210> 50916
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B8

<400> 50916

atgagctaca attacagtcc ttcaccacca aggggctaca ggagaatgcg tcgcagggca 60
agtcctgatg atcattatgg tattcgcagt atggatctcc caaccagtct tctggtcatg 120
aatctccgtc gggactgcat gccacaatac ctgcgtctcc catttggaaca gtttggtcga 180
gctaaagata tatactcttc aagaaattat tacacttgac tcatcacaat cctaaaagat 240
tattgttgca gagaaggaag aaatagagaa attcaattaa atgatctgca acttaaaaga 300
gttctcatta ctgctcaaga catgggaaaa aatatagtta caagttaaag agatactcac 360
atcatgaaga gtttcaagtc tgaatttaaa ctct 394

<210> 50917
<211> 375
<212> DNA

accgacatcc tactcgccgc cgctccagc gacggctccc tcgcttcctt ctccctttca 240
tcttgcatct ccgcatgttc cgctacctcc caggtggaga ccgcccgcac tctggtagat 300
cctgtctgca tcgtgcaagc gcacagcgga cctgcctacg acgtcaggtt ttaccccgat 360
caacagcagc c 371

<210> 50920
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-A5

<400> 50920

agtgtgacc agaatcaagt tatgcgcgaa cctgtacgat cgattgttgc gaaccggctg 60
ccccatacgt ggatggcaaa tgatctcgcg gagctggccc agaaattcag gtcgcgagtg 120
tatgttttca tagaggagaa acccttgaca agcgacggta ccaatctggg cgcttctaata 180
aagagatgag ataccagga ctggcgcagc ctgaggtagc ttgggtagta atatggaaag 240
catattgcta gcggctcgac aagtttagtt tctttttttt cccttactga cact 294

<210> 50921
<211> 251
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-C5

<400> 50921

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caatgaagag cgccagaggt ttgctgagaa gatcattgtc ctgctactga cagttgatgc 120
ccttgaggga ccggactaca tggctccgaa cgcaaggagg tccatgctgg angagctgga 180
ggggatgctg gagatcgtgg agcctcagcc gccggggaag ccgaggacgc ttagccgcag 240
gaggttcgat c 251

<210> 50922
<211> 361
<212> DNA

ctgcccctgc gcggtgctca acggcttgta cg

152

<210> 50925

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-H10

<400> 50925

gccgccggag gaggagcccc agggcccgcc gtcgccggac acagagccta ccgaggcggc 60

gcccggcgag gcggaggatg agccgcaaac cctagagcgg gcgcaggagc tcttcgacag 120

gggttccaag gccatcgagg atgaggactt cgtcgacgcc gtagactgtc tcagccgagc 180

gctcgagatc agggcttcac attatggaga gctcgaccg gagtgtgcca gcacatactt 240

caaatatgga tgtgccctgc tatacaaagc tcangaggag agtgatgttt tgggaaatgt 300

tccaagagc ttgccaaatg aagactcagt gaagagtaca gctactaaag atgacagtgg 360

aacctcaaag gtctctggta ccgatgncga ngatgctgcg tcatcagaaa aaagtgatgc 420

tg 422

<210> 50926

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H11

<400> 50926

cgccgccgct tgctcctcct ctccgactcc tcctcgggc accgtggtgt tcttcgtgga 60

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cgtgctcggc ggcacgttcc tgggcgccgc acaccacgcc ccacccgtca gcgacctgga 180

gacccgactg ttggcgaacc agaaccagac ccagaccag acgtgtcccg agttcaaccc 240

gaacgtccgc tggagctgca tggactgcct caaggccgcg tccacgtgcg gcttctgtgc 300

tcaccagga gacaagcttc ttccgggggc gtgcttggcg ctgaacaacg cgtctcggca 360

tgcgtgccgc gcagaccacc gggagttcta cac 393

the \mathbb{R}^n norm, the \mathbb{R}^n norm is

<400> 50927

<210>	50928
<211>	436
<212>	DNA
<213>	Zea mays

<400> 50928

<210>	50929
<211>	410
<212>	DNA
<213>	Zea mays

<210> 50936
 <211> 207
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-A2

 <400> 50936

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 ggactaccgc caccaacctt ggacgctatc ttaaggggcc aacagttccc aacagatccc 120
 tcccctgcta tggagatcgt gcagaaccct aaagcatacc cactggctga tgcgcagctg 180
 accatgggta tcctcaatgt catccat 207

<210> 50937
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-A3

 <400> 50937

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 gggcgccacc accacaagca gccggctccc ccggcgctctg gcccacaacca ggtgttcaag 120
 atcttctgcc gcgccaacga gaactactgc ctggccgtcc gcgacggcgc cgtcgtgctg 180
 gccccgggtca accccaagga cgaccaccag cactggtaca aggacatgcg cttcatcacc 240
 cgggtcaagg acgaggaatg catgccggcg ttcgcgctcg tcaacaaggc cacgggggtc 300
 gcaatcaagc actccctcgg ccagtccac ccggtcaagc tcgcgccttt cagccccggac 360
 catgatgacg cgtctgtgct gtggacggat agcaaggacg tgggcaaggg c 411

<210> 50938
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-A4

 <400> 50938

caatntgaaa actgattatt acattgactg ctagttttta aaaaaaaaaa aaaaagagaa 60
aaaggaaaaa ataaaaaggc agacagataa aaaaaataa aaaacaaaaa caaaaaatca 120
aatctaata aaaaaaaagg gcaaccgcct ctcgttttca aagttccaat cttecttcct 180
ccgacatcca acgtttttatc ttttttatcc taaaaccaat ttacaatcca ctgccctaca 240
ttttacaacc tggaaaatcc aaaaccttcc cat 273

<210> 50939
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G9

<400> 50939

gaagaatcac gctcgttctt ctataaaagg ctacggagga ggatcgcaga agatgttggt 60
gcaaaagaaa taaggcagat agtccgtgat aaatttacgc accaattagc aatggagctc 120
atcaaggaat ggtaccttgc ttctcaagcc acaacaggaa gcactggatg ggatgaccat 180
gatgcttttg ctgcctggaa ggacagtcct gaaaactaca aggggcatat ccaaaagctt 240
agggctcaaa aagtgtctca ttcgctctct gatcttgctg actccagggtc agatctgcaa 300
gcattctcgc aggggtctttc tacgctatta gataagatgg atccctctca gagagcgaag 360
tttgttcatg aagtcaaaga agtccttgat tgatgatacc aacacatcca acacaatgt 419

<210> 50940
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F4

<400> 50940

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gggacgacca ccagcactgg tacaaggaca tgcgcttcag caccgggtc aaggacgagg 120
aaggcatgcc ggcgttcgcg ctctcaaca aggccacggg gctcgcaatc aagcactccc 180
tcggccagtc ccacccgggtc aagctcgcgc ctttcagccc ggaccaggag gacgcgtcgg 240
tgctgtggac ggagagcaag gacgtgggca agggcttccg ctgcatccgc atgggtcaaca 300

acaccc

306

<210> 50941
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F5

<400> 50941

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attcagttgt caaggaacag aagccgttct ttgattctgt tcctggtacc ccagtggaga 120
aatccgtctt tgattccatc ccaggcacgc catttcagaa atccgtcttt gattctatcc 180
caggcacgcc agttcagaaa tccgtgtttg attactctgt ccctagcaca ccgatgcaga 240
actcagtctt tgattattct gtcccaagca cgccgatgca gaagtcactc tttgattctg 300
tccttggtac accggtgcag agatcagttt tcgattctgt tccgagcaca ccaatgcaga 360
gatcagtttt tgactctgtt ccgagcacgc cgacgcagaa accattctt 409

<210> 50942
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-021-Q1-K1-F6

<400> 50942

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caaactccct ttttcatgag aaaggaaact atggcaaaat gtgccagtt ggcccagttt 120
gatgaggagc tttacaaagt tacaggtgat ggtgaagaca aatatctcat agctacatca 180
gagcagcctt tatgtgctta tcacttaggt gatagaatat accctgctga acttccaatc 240
aaatatgctg ggtactccac atgcttccgg aaggaagctg gttcgcatgg aagggacaca 300
gctggtatct tcagagtcca ccagtttgaa aaaatcgaac aattctgcat tacaagccca 360
aatgacaacg attcttgnga gatgcatgaa gagatgctaa aaaactcaga agattacta 419

<210> 50943
<211> 301

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-F7
 <400> 50943
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 aaatcactct ctgattccat ccacagcaca ccatttgaaa aaaccgtcta taactctatc 180
 ccaggcactt cagtgcacat atccttggtcc gaatactctg tccctagcac accgatgcat 240
 aactaagctt ttgactattc tgtcacaacc actccgatgc ataacacact ctttgactct 300
 g 301

<210> 50944
 <211> 428
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 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-F8
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 agcaaggagc agctgctgtg gtgagaggag aagatgagca aggtggacct caccgagaac 180
 cggctacgcc gtgacgggtc ccccatcctt ttcccctgtt aggccgacgc acccttcctg 240
 cctgcctctg ggggcgtaag cagagaacct cccttacttt gttagtctcg catgccatgg 300
 cgggtggtggc ggcaccaggg gtgtccgctc gtaccattcc tttcggtac cttatcagac 360
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 cttaaagt 428

<210> 50945
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-G10
 <400> 50945

<210> 50948
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G2

<400> 50948

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 ctgcctggg ccacggacga cactcctc cacaacgcct tcagcaccta cggcgaggtc 180
 ctcgagtcca agatcctcct cgatcgggag acgcagaggt cccgcggctt cggcttcgtc 240
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 gacggccgca acatcacctg caacgaggcc cagtcgccg gcggccgtgg aggcggcggc 360
 ggtgggtacg gtgggtggccg tggaggcggc ggctacggcg gtggcgggc 409

<210> 50949
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G3

<400> 50949

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 tgtaacaaa gtctgcgcac ctggcatgaa agctactatg ttcgccgcac agtcaattca 120
 gctgggtatc aatgatattg ttgtggcagg tggcatggaa agcatgtcca atgccccaaa 180
 gtacattgct gaagctagga aagggtctcg ttttgacat gacacacttg ttgatgccat 240
 gcttaaggat ggactttggg atgtatacaa tgactgtgcc atgggaatgt gtgccgaact 300
 ttgtgctgac aatcatgccc tcacaagaga agaccaggat gcttttgcta tccaaagcaa 360
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<210> 50950
 <211> 430
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G4

<400> 50950

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atccttccac tttgtcaca gatggaatgg agaatcctta cgtgaaagca tcaagcgaca 120

tgagcatttt cttgccctgc aacttggttt gaaaccagga atgaaggttt tagatgtggg 180

ctgtggaata ggtggaccac tgagagaaat tgcaagattt agctcaactt cagttaccgg 240

attgaataac aacgaatacc agataaccag gggaaaggag ctcaaccgtt tagcaggaat 300

tagtggaaca tgtgattttg tcaaggcgga cttcatgaag atgccgttcg atgacaacac 360

ttttgatgct gtttacgcca ttgaggcaac atgtcatgca cctgatccag ttggttgcta 420

caaggagata 430

<210> 50951

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G5

<400> 50951

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agcattgaac tctcctgctt atttacagca gcaacaacta ctaccattca gccagctagc 120

tggtgtgagc cctgctacct tcttgataca accacagttg ttgccgttct accagcacgc 180

tgcgctaac gctggcacc tcttacaact gcaacaattg ctgccattca accaacttgc 240

tttgacaaac ccagcagcgt tctaccaaca acccatcatt ggtggtgccc tcttttagat 300

ttcttatgag ttatagttca ataataaagt tttttgtctg atgtttgtgg cttcccagaa 360

ataagaaagt acatttctag attcttatgt gcttctagtc tccaaatgtg gttgatagtt 420

attttgctct aaga 434

<210> 50952

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G6

<400> 50952

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tgatttttagc cctgctacct tcttgatata accacagttg ttacctttat aacatcactc 180
ttaacctaac gctaccaccc tcatacaact gcaacaattg ctgccattca acctaactta 240
ctttaaacia acaccagtat cagttctacc aacatcccat aattgaacat gccctcaatt 300
agaaatctta caagttatag ttcaataata aagttttttg acagatcctt gtagcttccc 360
acataataa cagtacattt ctagattgtt 390

<210> 50953

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G7

<400> 50953

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ccgccgaatc cgccgctcct cgcactgcaa cagccccgga ccacgggtgca tttgatccgt 180
cccggccgcc tacacgatgt ccaagtcggg agcgttgat cttgcttctg gcctcggagg 240
gaagatcaac aaggtggaag tcaagtcggc cgtcgatgag tatgagaaat atcatggata 300
ctatggaggg aaggaggaag caaggaagtc caactatact gatatggta ataaatacta 360
tgatcttgcc actagcttct atgagtatgg ttggggtgaa tccttccact ttgctcacag 420
atggaatgga ga 432

<210> 50954

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G8

<400> 50954

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 cttcaattaa ctctccaact ttattaaaat tgcaacattt gataacattc aaccaactaa 240
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 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-021-Q1-K1-F3

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 gcggcgctct gaactccga gccggctctc catcagccac gtcgcgcgcc gccaggaga 120
 aggagctctt taatctgtgc tagcagcggc cccagagaat gcggcagatc tcgtcgtctgc 180
 tgcagggcct ggccccgtca ctctcgggtg ggagggacag ggacagggac agggaccgga 240
 aagggaaacgg cgcaggcgac cgcaagaccg ccgtgccggc ggtgctgcgg acgtcgggca 300
 ccctgtgggg cgacggctcg gacacgttcg ccgncgtctg ctcgcggcgc ggcgagaaag 360
 gcatcaacca ggactgctcc atcgtctggg 390

<210> 50956
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D9

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 cgtgcagaat gattaaccct agacaaggat ccgaggcaga actcagcatg gttaacacca 120
 ctatcttttc aaggggaatg gtaataagga gaatgagccg tttattagt atgtaaccgg 180
 catcactgat tctgccattc tctcaggatt aaagaacgac atgcacaaaa tacagaggta 240

cagaacctgc aggaatcttt atctgatttc caatacgtat gttttgcata cactgaagcg 300
 cgcacagagg cagatgcagc actaatctag ccagtaaacc aagcacgcac actcacgcgc 360
 acgcacacac caagtgacca taccatcata caacatgcag tcagggtttt tttatcaaca 420
 gtat 424

<210> 50957
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E1

<400> 50957

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 ccaaccact tgctctggcg aacgtagttg caaaccagca acaacaacag ctacaacagt 180
 ttctgccaac gctcagtcaa ctagccatgg tgaacctg cgcctacgta caacaacaac 240
 aactgctttc atctagcccg ctcgctgtgg gcaatgcacc tacatacctg caacaacaat 300
 tgttgcaaca gattgtacca gctctgac 328

<210> 50958
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E12

<400> 50958

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 ttccatttta acacaaacat ctactccttt gattcctaata accatcttct aatatcaata 180
 tactttctcaa tcacatatac tatatcctca cattttcata attttcaata acttattcta 240
 tcaagcatcc aatccattct atattaatta aaatctgtcc tctgtaaaca tgtcaacttc 300
 ctatctttcc acatttctcaa tcaatctaaa tcattaccta ttcattctct 349

<210> 50959
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-E2

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 gaagcagctg atgatccaag tagcagagct agttcccaag catcacggaa ggacaaagaa 180
 gcaggagcca gcgccaatc ccggtggcag ttcaaagaac acaaaaggcg ggaaaaagaa 240
 aaagtgatgc agtatcattg tgttggtttt tattctgttc gtcatcatc actaagcttc 300
 tgtgaaaaag aaaaagtctt ggacgttggt gtt 333

<210> 50960
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-021-Q1-K1-E3

 <400> 50960

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 tgctgggtcg gcgggtgctt cagctccgac atcctcaagg ccatggaggt cgccgtgacg 180
 gacggcgctg acgtgctctc gctctccctt ggcgggcgga cggcggagta ctaccgagac 240
 agcatcgagg tgggcgcttt cagcgccatg gagaagggga tcttcgtgtc ctgctccgag 300
 ggcaatgccg gcccgggcgc cgcgacgtg tccaacggcg cgccgtggat caccaccgtg 360
 ggcgcgggga ccatcgaccg cgacttcccc gnctacgtca cgctcggcaa cggcaagaac 420
 tac 423

<210> 50961
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-Q21-Q1-K1-E5

<400> 50961

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tttccagatg gagecggatg tctttaagcg tcgcaccgac ggcatctaca tcatcaacct 120
gggcaagaca tgggataagc tccagctcgc ggcgaggggtt attgttgcca ttgagaacct 180
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gcagtacact ggcgccccatg ccatcgctgg gaggcacacc cctggtacct tcaccaatca 300
gctccagacc tctttcagcg agcctcgctt gctcatcctt actgacccaa ggactgacca 360
tcagccaatc aaggagtctg ctctggggaa ca 392

<210> 50962

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E6

<400> 50962

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caaactccct ttttcatgag aaaggaaact atggcaaaat gtgccagtt ggcccagttt 120
gatgaggagc tttaaaaagt tacaggatgat ggtgaagaca aatatctcat agctacatca 180
gagcagcctt tatgtgctta tcaacttaggt gatagaatat accctgctga acttccaatc 240
aaatatgctg ggtactccac atgcttccgg aaggaagctg gttcgcatgg aagggaacaca 300
gctggatatc tcagagtcca ccagtttgaa aaaatcgaac aattctgcat tacaagccca 360
aatgacaacg attcttgtga gatgcatgaa gagatgctaa aaaactcaga agattacta 419

<210> 50963

<211> 397

<212> DNA

<213> Zea mays

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<400> 50963

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cctgcatgga cgaataagag ataggatgca tgtgcggaat gcgaccatgt ctgaatgaca 120
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gatcagcctt tatgaacgta tgacttacga gatagatgag acatggcaaa gcaccgaacc 240
aaacatacct ggtgctcctc atacaaccgg aatgtacctt tgtcgtatgg aaaggacaca 300
gctgctatcc tcagagacca acagtttgaa gaaatcgaac actgctgcat tacaagccca 360
tatgacaacg attgttggga gattcatgaa cagatgc 397

<210> 50964
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E8

<400> 50964

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gctgtggctg ccagacacca ccgtttcctc taccgctcc gttctatatg ccgctccgt 180
tctatctgcc gccgcagcag cagccgcagc catggcaata cccactcaa ccaccgcagc 240
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gccagtgcgt cgagttcctg aggcaccagt gcagcccggc ggcgacgcc tacggctcga 360
cacagtgcc ggcgctgcag cagcagtgct gccaccagat caggcaggtg 410

<210> 50965
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F1

<400> 50965

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cttgtggatg attctctgac ttgtatgtca gaggcagtc ctatgattga acatcttatt 180
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ctgaccttgc ttgacctgtc ttataccttt ttggacaact tgaagcctgt tttcaacagt 300
tgtctgcagt tgaaagtgtt aaaactttca gcttgcaagt acctcagtga ctcataatta 360
gatgccctct acagagaggg tgctc 385

<210>	50966
<211>	391
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<223>	Clone ID: LIB3079-021-Q1-K1-F11
<400>	50966

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<223>      Clone ID: LIB3079-021-Q1-K1-F2

<400>      50967
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[illegible]

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<400> 50969

<210>	50970
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<212>	DNA
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21833

<400> 50970

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gatcttctgc cgcgccaacg agaactactg cctggccgctc cgcgacggcg ccgtcgtgct 180

ggccccggtc aacccaagc acgaccacca gcaactgtac aaggacatgc gcttcagcac 240

ccgggtcaag gacgaggaag gcatgccggc gtccgcgctc gtcaacaagg ccacggggct 300

cgcaatcaag cactccctcg gccagtccea cccgggtcaag ctccgcctt tc 352

<210> 50971

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-C2

<400> 50971

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gtgcgtcgcc agctgcttca acgacttccg catgcacgcc tctgctccg agatgcagag 120

ggaaatgac agcgccgacg cgataaagca ggagctgttc aagaacgctg gctatggcgg 180

aggctgcttg tagaggggca tgtcatcatg gcatgggagg aagaagaaga agaggcagca 240

atgaattaat cttaagcagc tgtgggagca gcagtcgtag tatcagttca ggtccagtag 300

cggaaaaagc aggcagggca aagatttggg aagccttttt gcaatccatc ntcccatca 360

taaccactt cgatctatcc attgtagcag tacgtgtccg tacgtcctat agcatcatgc 420

aggatgc 427

<210> 50972

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<212> DNA

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atcacctccg atgccatctc tcttgcaatt gctgactcca gcatgttcat gattggtcgt 180
 atagtttaca acatgtctca tgggaattggg aaataggagt tatctaccac gtgttaacta 240
 gtatgactac ttggcatgga agttccatcc agactatgaa gtcttctttg cttgctcaat 300
 aatactgtca aagaacaagt tgactacata catgcatcat atttctgttt gcatatgatg 360
 atactaaatg ccatctac 378

<210> 50973
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C7

<400> 50973

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 atcacctcct ttgccatctc tcttgcaatt gctgcctcca gcatgttcat gattggtcgt 180
 agagtttaca acatgtctca tgggaattggg aaaaaggagt tatctaccac gtgttaacta 240
 gtatgtctac ttggcatgga agtaccatcc agactatgaa gtcttcagtg cttgctcaat 300
 aatactgtca aagaacaagt tgactacatt cttgcatcat atttatgtga atatgtgttg 360
 atattaaatg ccatcaactt gaagatcagc attgttacta ttttggttta atactccat 419

<210> 50974
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C8

<400> 50974

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 cttcaatggg cttcgaacac ctagctgtgc aagcctacaa gctacaacaa gcgcttgccg 180
 cgagcgtctt acaacaacca attaaccaat tgcaacaaca atccttggca catctaacca 240
 tacaaccat cgcaacacaa cagcaacaac agttcctacc agcactgagc caactagatg 300

ctcgttccgc agttgcccgc gccggtggaa gacggagcgt tcgcgctcgc cgccgtgcag 300
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gac 363

<210> 50982
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A3

<400> 50982

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ttcccatcct ttctatcccc ttacactctt ctttaatat cacctaaatt taacttacct 180
aactcaatth ttcatacca cattttttcc aaaaccctc tgtaaaccca ctttattccc 240
ctcccttaat atcctttttt cacaacctct tttacagcg aacagtcctt tccaaaaacc 300
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<210> 50983
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A4

<400> 50983

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gctgctggag ttcgtgcgcg tgggtggaggc caaggagcag gtggtggccg gcacgctgca 180
ccacctcacg ctcgaggccg tcgaggcccg gaggaagaag ctctacgagg ccaaggtctg 240
ggtcaagcca tggctcgact tcaaggagct ccaggaattc agccacaagg gggacg 296

<210> 50984
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A5

<400> 50984

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atcattctac caacaaccca tcattgattg tgccctcttt tacatctctt atcatttata 180
aatcattact aaaccaacc ttactcatct ttgagaatat ccacatatta caaactacat 240
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<210> 50985

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A6

<400> 50985

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ttgcacttaa tgttctatat atagtactca aaactatgct tgggtgtctga gtgatgtacg 120
tggaattctg aaactatgga tcagctcttg tgtgcacttg ctgaaccaga taccagcag 180
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<210> 50986

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A8

<400> 50986

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cgtctcacia accctcttgc tttgctgctg cacctgcaag tctgcaaccg cgcacacaga 120
gatgtcgacg acggtgagcc gtgcgtccct cgaccagaag ctgcacctcg ccaagcgttg 180
ctcccgagag gcgacctcg ccggagccaa ggccgcagcg gtggcgacta tcgcctccgc 240
gatccccacc ctggccagcg tgcggatgct gccatgggcc aaggccaaca tcaacccac 300
cgccagggcg ctcatcgtct ccacggtggc tgggatggcc tacttcatcg ccgccgacia 360

gaagatcctg tcgctggcga ggcgccactc gttcg

395

<210> 50987

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A9

<400> 50987

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cgtgctcggc ggcacgttcc tgggcggcgc acaccagcc ccacccgtca gcgacctgga 180

gacccgactg ttggcgaacc agaaccagac ccagaccag acgtgtcccg agttcaaccc 240

gaacgtccgc tggagctgca tggactgcct caaggccgcg tacacgtgcg gcttctgtgc 300

tcaccaggga gacaagcttc ttccgggggc gtgcttggcg ctgaacaacg cgtctcggca 360

tgcgtgccgc gcagaccacc gggagttcta cacggaaggg tgccccaaca ac 412

<210> 50988

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B10

<400> 50988

cgcacatata tactatacta tactctagga agcaaggaca ccaccgccat ggcagccgtg 60

tgcttgcaatt gttcgctctg gtagctcttt gtgcaagcgc cactagtgcg acgcatattc 120

cagggcactt gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca 180

tgatgcaaca ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt 240

tggccttacc gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga 300

tgtcaccatt gatgatgccg agcatgatgt caccaatggt cttgccgagc atgatgtccc 360

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<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B2

<400> 50989

atataatctc tcttcgtcac tagctcgtgg taataagga agcttgatca tctttccgta 60
cggcggtgat gaagagcagc acaatcgtcg cgcttctgtt ggctgttgcc attctgtcct 120
cgctgtctcc atgctacgaa gccggcggct gcatcgggaa acccaagaag tcaccgccgc 180
cgccgagaag gccatacctc tcgtcctatt ccgaggacca ccagaactgc cgcttgatct 240
gtagctcgaa gggtttcaag gacggtggct ggtgtgacga aagcgtcgag cacaaagtgt 300
gctgctgctc ccattagaaa tataatatcg tatggtatgt tgatgcatat atatgcatca 360
tccatctacc tgtgtggtgc aaaattctga ataaaactac ctgtgtggtg cat 413

<210> 50990

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B3

<400> 50990

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agaaagattt ttgactaaag gtgtcaattt ggaggtgtaa ctgtacgtta atactaaacg 120
cgatgccatt gcaatttcag ttttattttg aaatacatgg ggttttagtg gcaaaaaaaaa 180
aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 240
aaaaaaaaag aagacaatta aagacatcca atattaacga caaaagccat gagaacaaaa 300
aagtaataat ggtggcctcc taaatgtaat tacctttcct atgttgaaca atatata 357

<210> 50991

<211> 249

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-B4

<400> 50991

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gagattatgt agtactgtat gtgcacagat tgatggagta cacaaactaa gctcgtatcg 120

ctagagaatc atggtactat gaatagcat ttggatcagc gtgttttagtt ctagtaagat 180
aataccactt ctcaattaat gcaattccag cctcccaatg ttttgtcaaa aaaaaaaaaat 240
nnttaatat 249

<210> 50992
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B5

<400> 50992

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ctcatatagc aacagttggc acagcaatgt cgtccccaga aaaagcagct tgggaaatct 120
tcaattcttt agatgtcaaa tatgtgcttg ttgtctttgg aggacttggt ggatacccta 180
gcgatgatat caataagttc ctttggatgg tacgaatagg aggtggtgtg ttccctcaca 240
ttaaggagcc agattatctt agggatgggc aatatcgctg tgatgctcaa gccactccaa 300
ctatgctgaa ttgcctcatg tacaagcttt gttactacag gtttgtggag actgatggaa 360
aaggctttga cagagtaaga ggatatgaaa taagaaagaa gcatttcaag ctaacacat 419

<210> 50993
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B6

<400> 50993

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aattgacagt tgatgtcaaa gcaaactcag aatcagatct tttgacagca atcactgtcg 120
atgagtttgg tactccaggg ctaaaatcaa ttatcaatgt ggttggtgca gaccagagtt 180
caggaagct tgaattccag tacctacatg aatatgctgg tgtgaatgca agcgtcggac 240
ttaattccaa ccctatgggt aacctttctg gtgcctttgg aagcgaagca ctatcagtcc 300
aggttgatgg ctgatttgat accgcgacta gcgattttaa caatgaca 348

<210> 50994
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-B8

 <400> 50994

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 ccggccgccc caacttctcc acaccggagg agatcgctgc tgggtacttca ggtcgccctc 120
 gcacctttaa gaagaaggag gaagaggaag aggaggaaga agaaagagaa gagtcagagg 180
 aggaagaatc tgaagacgag tctgatgaca aacctaaca taaaggtact gagggtatta 240
 ttcagattga aaatccgaac ttagtaaaag tgaagaatat aaaggccaag gaagttgatc 300
 ttggaaagac aactgaactc tcaaggcgtg aaaggaggga gcttgagaaa caaaaagctc 360
 atgaacgtta tatgaaactt caggagcaag gaaaaacaga ac 402

<210> 50995
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-B9

 <400> 50995

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 atgcttgcat tgttcgctct cctagctctt tgtgcaagcg ccactagtgc gacgcatatt 120
 ccagggcact tgccaccagt catgccattg ggtaccatga acccatgcat gcagtactgc 180
 atgatgcaac aggggcttgc cagcttgatg gcgtgtccgt ccctgatgct gcagcaactg 240
 ttggccttac cgcttcagac gatgccagtg atgatgccac agatgatgac gcctaacatg 300
 atgtcaccat tgatgatgcc gagcatgatg tcaccaatgg tcttgccgag catgatgtcg 360
 caaatgatga tgccacaatg tcaact 385

<210> 50996
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-C1

<400> 50996
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 gaaaaatcag ctcaaaggac aatcattcaa actgtcgaac catgattttg aaagacttgc 120
 tgtggagacc gaaggggtatt ctggaagtga cctgagagcc ttgtgtgaag aagctgcaat 180
 gatgccaata agagagctcg gtccacaaaa tattcttact atcaaagcaa atcagctgcy 240
 acctttgagg tacgaggact tcaagaacgc gatgacgggtg atcaggccaa gcttgagaa 300
 gagcaaatgg gacgagctgg agaactggaa cgaggaattc ggttcgagct gacggagacy 360
 cgcgctgtct gatgatgatg atc 383

<210> 50997
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G9

<400> 50997
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 cgctggcttt atgcaagtgg acgtcacccc cctgctgata ttgatatggg tggatgggtg 120
 actagcgaca actatgatat cacctccgag cttccttttg gatttcaatg gtgtcccttt 180
 agtggattca cccagctagc atcaatgtta ggggtgcytg aagctgagcc aacttaccac 240
 acaactggag atcaactcaag tgctgcaagc agttcacttg tttgcccata tcttgccctg 300
 cgtggttttc tccatcctgt taatgtgcct tctacttcta attctggtgc tgaaagcact 360
 tcatttcacg ggcactcaac tggcttgga gacatgtca ctcttgattt gaacaatgct 420

<210> 50998
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H1

<400> 50998
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 ggaggtcaga taggcgcggt acaaccaaca caggctacac tgaacatgca gtacaggggc 120

atgcatccat cgatgcaaat gaatcatgga atgggcatgt attcccaacc aacgttcgga 180
ggatattatg gaatgaacca aacacagctt tacggcgctt atatgtctgg ttatggatat 240
ggtcagcaat ctgggggcta ctatattccg aatgctgcat atgcctatac tagtgcaaac 300
gaacttgccc agaagatgaa tgacctttca gttcaaaacg gtgatccaaa tggagccgca 360
gcaaataagc agagcagacc tgacgatgca c 391

<210> 50999
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H11

<400> 50999

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gagaagtcac ttctaaagtc atggcagact cgcagcaaaa tagtctcaca agagccttgc 120
acaatcaagg aaggacacaa ttgacagttc gataccatga taacagtgat gtgaagacta 180
ctcaggatct taccgtgtgg tcttcaggaa ctgagcaaca gagaaacaat attgctgccc 240
agacaaagct atgtctggag ggttggacgc caactagaag tcctgaaggc tacaatcaga 300
tattctcggc atttaaacca ctgaaagata tacataaccc acttggtcct tttcctagtc 360
aaatatctgg gactcactca aatagctggg acacagctga tgctc 405

<210> 51000
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H12

<400> 51000

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caaagaagaa tttgttagtg aatatatata cccctgcctg cgtgcagggtg cagtttatga 120
aagaaagtat ctgcttggga cttcgatggc taggcctgtt attgctaagg caatggtcga 180
tgttgccaag gaagttggtg cggatgcagt tgcccatggt tgactggaa aaggcaatga 240
tcaggttcgc tttgagctta cattctatgc tttaaactct gaacttaaag tgggtggcacc 300

CCCTGGGAGGAG

ttggagggag tgggatatca caggacgtga agatgctatt gaatatgcta agaatacataa 360
tgtacctgtt acagtttcaa agagatcaat atacagtcga 400

<210> 51001
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-020-Q1-K1-H2

<400> 51001

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catgttgctg gtgtctcaac tgctgcaagt tttgggtggc ggttcttatt tgagcccatc 120
ctggtcggta ttggagcttg tacagaacaa caccgaagtg catgatattc ttgactgaat 180
aaaattaatt gacgacactt gttttacgta agggaaagat gaggataatt tggagacata 240
ggcttaacca cccggaaata gtaagcggga ttctctggta tgtnnctttt ttatatagtg 300
tggcatgagt cgtgtcaacc tcagctcagc tgaaagggct caagtctgtg ccacaacaca 360
actggaagag ctgcngccgt ggccaaagga ggaaatgccca aacaacagca aca 413

<210> 51002
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H4

<400> 51002

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gcggcgcggg cgaggagcag accagcaccc agcagccctc gtcggggggc gggagttgta 120
gcttgatgag gcgtcgctt tgcgcggtgtg ctgtgactgt gactctgccg ctaacccggt 180
tgcatttctc catcttatcc ctctcccgt tctgttctc cgtctcttac ttcgttctga 240
tcccgtggc gaggatgcat tcgcatttgc ggcaactcaat gtagccctac cagaaggtgg 300
tgaagatcgt ggacgtcact gtcagtgtgg tgtacaatgt gc 342

<210> 51003

<211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H6

 <400> 51003

 aactgctagt cgaagataat taggtgcagc gtttatacta acataaaacc atggggttgag 60
 acatatcccg ggtaggccgt aacacaggca gtctccgctc tgttgctagt ggcaagcgct 120
 gcctgtcctg tgtctgtttg tacgttgaca atttgattcc gttgctcaag gatagaagaa 180
 tattgataca ggagacccga ggactggttt gttttttgca aaaaaaaaaa ttacaaataa 240
 taaaactaaa atacaataaa aata 264

<210> 51004
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H7

 <400> 51004

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 ctgaggatgg aaccgatcct cccaaaaagc ccacatcagt agctgaggtg gcaaagcagc 180
 gtgagcttag tggcactctt caaagcgaga cggatagtaa gacgaagaag cagatctcaa 240
 atgcaaagtc caaggagctc agcggccacg acatctttgc tgatactctg gattccaggt 300
 ctaacagggc aaggaaccca tcgaacggca gcacagcctc acacgcacct gccaaaaata 360
 caaacgccag caccttctcg tttggagatg ccaacactga cagcacgc 408

<210> 51005
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H8

 <400> 51005

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acactcacta atgagaagga gactgacgct tgcccaatca gagcaatgaa gttctccgtc 120
tctcctgttg tgcgtgttgc tgttcagtgc aagggtgcct ctgaccttcc caagctagtc 180
gaaggcttga agcgtctagc aaagtccgat cctatggttc tatgtacaat ggaagaatct 240
ggtagacata tcattgctgg agctggcgag cttcatcttg agatctgcct gaaggatctg 300
caggaggact tcatgggtgg tgctcaaatt atcgttttca ctgcgctcgg ctacttacgc 360
gaaacggatc ttgagaagtc ctgacgtact gtcatgagca agtctcccaa 410

<210> 51006

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H9

<400> 51006

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aggaggacgt ggtgctgccc aaaacataat tcccagctcc actgggtgcag caaaggctgt 120
tggaaaagtc ctgcctgagc tgaatggaaa actcactggt atggccttcc gagttccaac 180
accaaattgct tctgttgtgg atttgacatg ccggattgag aaaagcgcct cctatgatga 240
tgtgaaagca gccatcaaga cggcatcaga ggggtgcactc aaaggtattc ttggctacac 300
agacgaggat gttgtttcca atgattttgt tggtgattca aggtcaagca tctttgatgc 360
caaggctggt attggactga gctctttctt catgaacttg tgtctggtat gac 413

<210> 51007

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A1

<400> 51007

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gtcgtagcct acttaatat ttgaatctgg ggtagtaac aagctcttgt tgtttcattg 120
gattcctgaa aagttcagtt gatctagttt tctctgcaaa gaacatgtgc atacctgttt 180
caggctaaca agttctttcg tcttctttgg taggttctcc ttgagctggc ccgtagccgg 240

aacagaatgc cgctgcccaa atcaatcgct cctcctggct cgattcccct cccacctgag 300
 caggacacac tggttgccca gaactaccaa ctctgcctc cgttgaagcc gccacctcaa 360
 tatgaggaaa tagaggatga gactgaag 388

<210> 51008
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-020-Q1-K1-F3

<400> 51008

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 cctgatgaag acctacgggt tctcactcc tgaattctgg agccagacca agttctccat 120
 ggccccgttc cagcagtaca ccgacctgct ggcaaagccc accaagggcc ttgtgctcga 180
 ggccccaaact gagacagtag aggcttagga tggtttgagt ggagagctct actcgtcggg 240
 tgcttgctta aatgcgggtat ctatattata gctaagaact gccggagtcg attttggggt 300
 ctgttttgct ctggatgctg ntctgtactg tcaagtttg gattatgcta tggcactttt 360
 tatcgatgaa tgctacanta tgatctcatg atagtgggtt ttcc 405

<210> 51009
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F4

<400> 51009

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 tctgtgttac tccatctgtt ccatagagat gacgtgcagt caaagttgac cactttatcc 120
 acctatacac acgaaagtgt ttacagagcc agcattatgt atctagaaat ttgagaaata 180
 tttctagttt tcagaacaaa aggcttatat tggactatct atcctcttct taatataata 240
 atacacacct gcgtgttcga gaaaaaaagg ctttgctggt gtatttcatt tttctcaaaa 300
 caaagaaata aattccgtgg tgattttcga tctcatgaat gacaaatgtt ataaataatt 360
 acattctgtg ttttagaacc tattttcctg gtcactgagt tcatactcat caattaatat 420

gatgtggtgt caacactaac

440

<210> 51010

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-F5

<400> 51010

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tccgcggagt tctggctcga cgagttcacc acggacggcg acgtccgcag agactacgac 180

cgttctggcc ggcaggtggc gtcgcttgct ctgcaccagc gttctggcgc tggcttcaac 240

tccacgcgca agtacctctt cggcgagttc agcgtggaga tgaagctcgt cggcggcaac 300

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gagttcat 368

<210> 51011

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F6

<400> 51011

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cctaactata aacaaaccaa aaataaaata aaaccatcct atacatccta atcacaaaac 120

aactacgcac acttctggct agacaagttc accaccgcac ggatacaacc acatagacta 180

ccaccgttct gacctacaag tgactatctc ttgccctctt accacaactt ctgacactgg 240

ctaaaactcc acgctcaagt acctattcgg ctagttcaac atccacatta agcctcttcg 300

cggcatactc catagggact gtccacctct tctac 335

<210> 51012

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F7

<400> 51012

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ccttgctatg gacgggccgt cactcagctg aaaccatcct ctgcataccta gtccgggtccg 120

cctccgcgga gttctggctc gacgagttca ccacggacgg caacgtccgc agagactacg 180

accgttcttg ccggcaggtg gcgctcgctt tctctgacca gcgttctggc gctggcttca 240

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actccgctgg gactgtcacc tgcttctacc tgacg 335

<210> 51013

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-F8

<400> 51013

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cgagctctgt cgcattgcgc gtttctatac gcgtcggtgt caacgtcccc ttctcttctt 120

gttttgttg taccgcgcgc cgcagatagt gggcacggcc cgtggctacc gtctgggaa 180

gaagaagcac ggcggcgggc gcggttaacaa gaagagggcg tcgccggcgc cggcgcttaa 240

ggacgtgcgg tctgactcgg aggactcgtg caccagcacc agcggcgcca gcagcgacaa 300

gagcagcgtc gtgcagagct ccccttcgnc gncgacctct gccagccacc gnccccccg 360

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taggactctt cgt 433

<210> 51014

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-F9

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 tggattatc gctcctttgt tgcaactgct tcaaggagca gagtttgata tcaagaaaga 360
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<210> 51017
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G2

<400> 51017

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 gacggaaggg agttcaacat atggaggcct ctctgcccta atgagtatgc ctcaaattgt 180
 gatattgcgc atgttggcat ccatccaccg tattgtgctg ctgtatacaa gaatatcaat 240
 gggaactttg cactgcctct tggctatgac ctggtttgga gaaattgtgc tgaggattac 300
 aagagccctg tatcaatatg gcttccaagg ccaccggggg gatacgtagc tcttgggtgt 360
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<210> 51018
 <211> 369
 <212> DNA
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<223> Clone ID: LIB3079-020-Q1-K1-G3

<400> 51018

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 tgaccttaaa ccagagaaca tattgcttgt gtctaccatt gatcccacaa aggaccctcg 180
 gaaatcaggc gtacccttag ttccgccttc aatgaggaca gacgagccac ctcctaaggt 240
 gcctgcacaa tcaggaaatg gtggcctcac caagaaccag aagaagaaga tccggaagaa 300

agctaaacgt gcagttgctg caacttcaga aggaagtagt gctgtggcat ctgcggacac 360
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<210> 51019
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 <212> DNA
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<223> Clone ID: LIB3079-020-Q1-K1-G4

<400> 51019

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 caagacctac ccgcagcagg ctggcaccgt ccgtaagaac ggcttcatcg tcatcaagaa 180
 ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgcaa 240
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 atcacacaac tgtgacattc cgcattgtgaa ccgtactgag tatcagctga ttgatatttc 360
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<210> 51020
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51020

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 tctttgctgc cattccatgg tatcttggag cttttgtgct gatttgtgtc cgagtacgtg 180
 attacaggga gaaaccagga tatgttgctt gcactattgc tgcctcgctt gctgcaattg 240
 ctgtgctgct tggcgccaca aaaggagcgg aggtgtggtg agcattatgc cttcaattac 300
 cagcagtccg gttaatgtaa atgtccgttg ctcggtact ttgttacctg tgttgtacat 360
 gtgttgtgctg taaaaaggat aggggtgtaac gaanatgatg tatgctc 407

<210> 51021
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G7

<400> 51021

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gtgaacacct tcttcctctt ctgcgggtgc gtggaccagg ccagcgtggc ggtgggtggag 180
aagtggggcc gcttcctccg cctcgccgac ccgggectcc acttcttcaa cccctcgc 240
ggggagtgcg tcgcgggctc cctcaccaca cgcgtccagt ccctcgacgt ccgcgtcgag 300
accaagacca aggataatgt cttcgtccaa ctgatctgca caatccagta ccgtgttgct 360
aaggaaaatg catatgatgc tttctatg 388

<210> 51022
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F11

<400> 51022

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cttacttgca aattaactct ttctgaactc tacatccatc tatagacca cacatacacc 180
aagtctcaca actcttagcc ctgctattag aacatacaat acttcttata cccattaata 240
acgtttaaca ttaccatggg attcaaattt cctacaattt aactctttct agaaatatac 300
gatattgatc attccatcat ttg 323

<210> 51023
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D5

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<400> 51024

<210>	51025
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<400> 51025

21857

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cgcgggcaat gccggcccg ggcgcgcgac gctgt 335

<210> 51028
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E10

<400> 51028

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gcgagctgga gccggaggcc aaggcgctcc ttgaagcggc gctgacggaa gccaacaggg 180
agagggagga gaagatcctc aggggcacca agcactctcc gcacccctcc acctgggacc 240
acgcgagcga cgccgcccac gccgacgcca tcgacgacgc gtcctcagat gtatgctttg 300
tgaccgctga caaatgtggg acctgatgca tcacgcccc ttttgcgctc acttgactgt 360
tcactcacag gccagcgcca gcgacgcgga gctgtgctgc atctgcttcg accaggcg 419

<210> 51029
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E12

<400> 51029

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ctacaccagc tcctcctatg aatactgact acctccagca tcaccaacta tcttctccta 120
cgccaaaagc tgcaggaaca gcaacaggcc attgagctcc agagccgaca cctcatgggt 180
cttcagcttc tcgaccttaa tgctcagcgc tgatgctgca gcagcatcgc cactgccgac 240
accaattgtc tataccttcc aatccagcct acctgtgagc accaccgag tctagtcgcc 300
atcgacgtca gagtctggc agcagctgct aaagctgagg agcggatttg ctctggatgt 360
gaaggtaaac tgtggtgata aagatgaatc tgctcgcgag gcg 403

<210> 51030
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E2

<400> 51030

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 cgccgctcc ggggtgaggt tcagcgtcgc gctgcacctg gagcccaaga ccgcgctcgc 180
 cctggccgcc gccgatggcc tcttctccgc ctagctagct agctagccta gctgcttcca 240
 ggcccttctc ctgagtgagc agagcactga gcagcagtag tcgagttctt ctggaccata 300
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 gcgcatctgc ttgattggtt tctccct 387

<210> 51031
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E4

<400> 51031

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 cctatagctt ccttcttcc cccatacctt ccatcaatta tagcttcaat atgtgaaaac 180
 ccagctcttc aaccatatag gcttcaacaa gcaatcgag caagcaacat acctttatcg 240
 cccttggtgt ttcaacaatc gccagcccta tctttggtgc agtcattggt acaaaccatc 300
 agggcacaac agctgcagca actcgtgcta cctctgatca accaagtagc tctggcaaac 360
 ctttctccct actctcagca acaacaattt cttccattca accaactgtc tacac 415

<210> 51032
 <211> 392
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-E7

<400> 51032

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caaccagcca agtttctctga gtcagaagga tatcgacgaa gcgagtgagg cggataggct 180
ggcaaacagg ccaccactgc caacgggtgc cagctctcgc gtggtgaggt ctttcgatca 240
atcttcgtcg tggttttcca atggagagat ctaagtgatt gctggtgcac cgcaattgtg 300
tacagaacct acttactatc gttctgagct ctggtgcttg ggcagcttcg ccacgcaacg 360
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<210> 51033

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-E8

<400> 51033

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tgacaacagg gtcgaccccg ggttcggccc cctctcagag aaaacgaaat tctaccaagg 120
attccgttgc cctgtacgcg gtgcaatgct ataagtgcta caaatggagt acggttccaa 180
aagaagaatt tgagacgctt cgtgaaaact tactaagga tccatggttc tgcagcagac 240
gaccagacag ctcttgtgaa gacgatgctg acattgagta cgacagcagc cgcatttggg 300
ttttggacaa gccaacata ccaaagcctn caccagagac ggagaggcta gtggttatg 359

<210> 51034

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E9

<400> 51034

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gatgtgcaac tactacacgg tgaggcagga tggctccaca gcattcatga ggtcttgggc 180
 tttccaggga tccatggacg gccggaactg gacaagcctc cgtgtccacg acagcgaccc 240
 taccgtctgc tatccaggcc agttcgctc ttggcccatc gttggcccgg cggcccttct 300
 gcccttccga ttcttcaggg tcgccctgac aggccctgcc gtcggctgta cgtggaacct 360
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<210> 51035
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F1

<400> 51035

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 actcgccatc gacgccgacc taggattccc cgcctatacc acgcaggaag atcagactag 180
 ctccgacaaa agcgatgatt cgggtgaagg tttgagggaa ctgactgtac agcagaggaa 240
 cattgccaac ttgcaagtgg agctacaggg aagaaaggat gatgaaaaca ttgctcattt 300
 gactcatgtg agtgagattg aaaagaagtg cgagtctttg gccagaatga ctgcaatatt 360
 gaaagatgtc attcataaca cggatcgt 388

<210> 51036
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F10

<400> 51036

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 tagactttga cccgctcgat gtcaccaaga cctggcctga ggatatcatc ccgctgcagc 180
 ccgttggacg gatggctctg aacaagaacg tcgacaactt ctttgcagag aatgaacaga 240
 ttgctttctg cccagcgatt attgttctct gaattcacta ttctgatgat aagctgctcc 300

51035-51036

agacgagaat cttatcctat gctgataccc agaggcaccg ccttggtcca aactatctga 360
 tgcttactgt gaatgcacca aaatgtgccc accacaataa ccaccatgat gggttcatg 419

<210> 51037
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 <212> DNA
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 <223> Clone ID: LIB3079-020-Q1-K1-D4
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 cagaaatggt gaaggatcca ttcggacgga agaaacggct gtgcttgcca agaacgttga 180
 cggccccctg gtgacgattg cctagaacag cacatgactt gcacttgcta cgtacctgca 240
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<210> 51038
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-B8
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 gccccaggga agacagatga ggattgcgga gtgcttggtt ggtgatgaaa ccggcatcat 360
 tgtcttcaact gcaagaaacg atcaagtga tgtaattagg cctggaacaa c 411

<210> 51039
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B9

<400> 51039

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<210> 51040
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C1

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<210> 51041
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C11

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accacaagaa taaggaagaa gagcaccaca agaaggccga agagcaccac aagaaagaag 180
aaggggagca ccacaagaag gaccgccggg agcacaagga aagcatcgtg gagaagatca 240
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agaaaaagaa gaagcacggc gagggccacg accacgacgg cggccacagt agcagcagca 360
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<210> 51042
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C12

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agggggagca ccacaagaag gacggcgagg agcacaagga aggcacgtg gagaagatca 240
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agaaaaagaa gaagcacggc gagggccacg accacgacgg cggccacagt agcagcagca 360
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<210> 51043
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C2

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tttatccgaa gaacttaggt ggacgagcag tggtcactgg gtgggtgcct ttcagttcat 180
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<210> 51044
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C3

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 gatgttcaat ttaatattg aacttccaga aacagtagcc agaactttgg ttccaaggat 180
 gagagttgta aaaggaagtg gaaaggcaat caactactta acaccaccaa ggatcttgct 240
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<210> 51045
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C4

<400> 51045

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 aagttctctg ggttacctct ttggaagcgg agagccctcc aaacacatca gtggcaccag 180
 ctgatagtgc tccacctgct gctgcagggt ctccacttgc tgagaaacca cctgctgcaa 240
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<210> 51046
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C7

<400> 51046

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tcaccaatcc agatggctgc cattccgtag gtctacaaca acctgaaggt aatgggattg 180
gttaaaccag gttttgaaaa aactgcagcc ttggaactcc caagtgggcc taacattacc 240
caattg 246

<210> 51047
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C8

<400> 51047

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atcaacagtt gcttgagact tcagtaactt tgctacactg aggcagcttg ctattgacaa 180
ggttcaaccg gtggtgatat ctttgaaact tgggtactctc atccagtatc tcagtgggtc 240
ttcactgcgc atgctttcag tccgtgaaga atcatgtgaa tacttcagga cgatggagtc 300
tatgtgcgcg tccgatctaa ctgatctgat agc 333

<210> 51048
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-D1

<400> 51048

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 ctgtttgatg agtttgaaga gtggtatatg atgcaggaac actactgtgt ggcctatgga 180
 atcaacgacg ccgagggcat atttgacagt tttggatttg gggagacata gcagcactgg 240
 tgccttttct tctgtgggta ccagctgcac ttgttgtaaa ccgacaccat taattcaagt 300
 attactcgaa gtaaactttg cttgattaaa gaaggaacga ttgcttgata aaagaaggaa 360
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<210> 51049

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D10

<400> 51049

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 ggtcaagtgc acggcctact gttgattcga ctggtccgct gctggcgcggt agcggtttgg 180
 cagtgggcgg tgctagtggc tggcggtggc ggctgctag ctgctgttgg tgtgatggcg 240
 cgtgtgcgtg tcggtgagct gaggaccggg tggttaactt gtgttatcat cccaatagt 300
 atactagcgt acttctcgtt ctggggacta tttatacgt gaccacgata tgcgtagggg 360
 cggtttattt ctaagataag aatataagat gctc 394

<210> 51050

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D12

<400> 51050

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tggacgtgat ga

432

<210> 51055
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A3

<400> 51055

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aggcaggtgg aagaccctgt gttttgttaa tgacaataac aggaatgctg ctattaacct 120
gaatctgcct ccagagagct atagttcaaa cacaaccaac ttaattgatg tgaacattga 180
gcctgctgac tcagccctta gtgcacatgc taagcgaca aaggagttcc atttctgttc 240
aactgatttt cctgaaccca gtaagtctgt gccttttacg ttggccacta cctctttgtc 300
tgcagcagct gctacaaacc aaactggtga tgttcccatg 340

<210> 51056
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-020-Q1-K1-A4

<400> 51056

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gggtccccaa tgatcgagat aagtgtcttt actggggata atgttgatga acttctggaa 120
actgtcatgc ttgttgcaaa gttggaagaa ttaaaggcaa atccacatag gaatgccaag 180
ggcactgtta ttgaagcatg ccttgacaag gccaaaaggc ctcttgctac cttagttgtt 240
cagaatggaa ccctaaacaa agctgatatt attgtgtgtg gtgaagctta tggaaagatc 300
cgtgcattgt atgatgactg tgggaagctc gttgacaaag cangaccatt caatgcagtg 360
catgttattg gcctcaataa cgttcccctt gccggtgatg 400

<210> 51057
<211> 311
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-A5
 <400> 51057
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 agatcgagct agtccttctc acaaaccgc atgctttact gatacaccta caaatcttca 120
 tcttaacaca catatatctc cactacatct aatcctcaca cacatccacc attaattctca 180
 tacctaacac ataaccctct tcacttatcc catacttcac atactcaacg cacaaacgaa 240
 ttccactatc gtctaactga tcctcaccat ccccataata ctgatccttt cactttccac 300
 actcaatatt a 311

<210> 51058
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-A6
 <400> 51058
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 aaaaacttaa aaccgagaag aacatattaa aaaaaaaaaa ctctcttaac atacccattc 120
 ttccttacca ctacactcaa aatcattccc cttattttta aaaaacttctc cttacactta 180
 cccccattgt tctaaccac accattttta accccactgc ttactcccta tccaa 235

<210> 51059
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-A7
 <400> 51059
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 aaaataaaaa agggctgctg gcatttaaaa ttacaacaac gattgctaag aacaacatta 120
 ccattgctcc actgttctat actcatttac acatgtcaat tcctcttcac aatctatata 180
 cactctttat aaaaaactta tatcatcac aaaccttaat ttttactctc gctactcttc 240

cgtaccaaca tccaatctca ctcgatataa atccctttca ctatgacct

289

<210> 51060

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A8

<400> 51060

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agaggccgtg tggctcgagc tcccgcctgc ggggaccaag tgcgtctccg aggagatcca 180

gcccacgtc gtagtgctcg ccgactacgc tatcatgtac gagtcccacc ccagctcgca 240

tcccacgtc gccgtcaagg ttacatcacc ctatggcaat actgtgcatc ataataaaaa 300

tgctacaacg ggccagtttg cattcaccac ttcagaagct ggaaactacc ttgcatgttt 360

ctggatagac agcgtggaga aaggatcatg aacatctcta aatcttga 408

<210> 51061

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A9

<400> 51061

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ttaaggcttg gattgccaca catcctccac cactgcatca gaaaccagag acatctgcta 120

gaggtactgt gtggagggcg aagggttcgt cgagcggcac aaccccagtg gagaatcctg 180

ttgctaaagc aggatctgac gtgcagcacg ctgccgaccg ccctggttgc agcttcagaa 240

acttcaggtt tgacaccgca agcatcctgc aggccatgga ggcttccttc ctacgcacct 300

agaatcctga cgaagcatca acacctgcac cc 332

<210> 51062

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B1

<400> 51062

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ggcatctgct tgagctgctt ctacaccaaa ttggcctgcg cgtaaaggag ggatagaagc 120
agtggaaccg gagcctctat gattttttat gcatatcggc cgtgcatggc tgaattctgc 180
tacctgactg ttaacctgga accgggaccc tctttgcatt ttgttcattg gttcgcgtgg 240
aatgtgaaaa aaaataacac aaaaaaaaaa ccttaaacaa taacc 285

<210> 51063

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B10

<400> 51063

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aaactccttc tgtttaatgt tgggctcata ctactttgct ccatcagtgt gattcagttc 120
tgtgccacgg cttttgecta ctacgcacaa gcaactgcag ctcaagagat atttgccac 180
actttgcaat cccttcgtgg aattaagtat ctttacaagt acaatgtttt ccagtatggc 240
tttgttgctc ttgccatcct cactctcttc tactatgcta tatttggtat gagaaagagg 300
aaaccaacag gaagattcca gctctcaaat tgatttgctc tgtaagtga gtttgacgga 360
ttcatcatat gtgccccctg agtggttagt cagtttagcat cttaaaaatg tata 414

<210> 51064

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B11

<400> 51064

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taccaccatc accgtccagg tcaagttcgc cgggcggacg atccccgtgg aggtcccggc 120
agcggcttcc ggcgcggagc tgaagcgcct cctacagccg ctgaccaatg tcctcccgcg 180

cggccagagg ctcatctgca aaggcaaagt gctccaggat gccgcaagcc tgagctcgat 240
gcaagtagtg ggcggatcca aggcgatgct catcgcgctg caagggctcc atcacgggga 300
tggtcctatc acaagtcacg gcagtagctc agcaacaact gtgagaaggc cttcaaagtgt 360
taaggagaat c 371

<210> 51065
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B12

<400> 51065

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tgatggaggg tcttcaggct cttcccttgg aggacgttgt ctctgaagct gacatcttcg 180
tgaccaccac tggcaacaag gatatcatca tggttgacca catgaggaag atgaagaaca 240
atgccattgt ctgcaacatt ggccactttg acaatgaaat tgatatgctc ggccttgaga 300
cctaccctgg cgtcaagcgc atcaccatca agccccagac tgaccgctgg gtgttccccg 360
agaccaacac tggcatcatt gtccttgctg 390

<210> 51066
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B2

<400> 51066

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ttgtggatga tctccaagca atgttcccat ggaaggagaa gcaccaggtg accaatttat 120
atgttgagct actagtggag atcatgaggg cacagagcaa caaccaacat gttgtgccaa 180
gtagcgctct tgtgaatgat aactttggga tgctgtcaaa acccatggac aacatgaaag 240
tgatagaagg gtatctaatt gatgagatgg aggccatgag gattctagag gagcaaccaa 300
atatgctgaa tgtcattcat aagaaaaaga ggcattggagt gaagtttttg accacagacg 360

agcacaggaa ttttcttcgt

380

<210> 51067

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A12

<400> 51067

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tagttagat aattttctct atgcaaagtc aattgttaga gaccgcattt attctatgat 120

ggtatttttt agtaccacaa atggacaagg accccatcga aatggtagag agcacagtgt 180

gagtgatcca gggaagcctt gatatcattc gcagcctggt cactaatggt gttgtgaatg 240

taaccacact cagtctatct attcccttaa gaccacattg tttcaaataa tagatgtgtg 300

tgacatgctt gacaagtgtg tcgtctccat gatttttttg ctaaagctaa gagggaagaa 360

gttattcaag cttaagatac atccaccaca acagatg 397

<210> 51068

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G11

<400> 51068

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gctgaaaagt cacatgaaga tcacgcagag catgatcatg aacaccatga gcatgagaat 120

gaacacgacc atgaccatca tcaccatcat gatcatgatc atggtaagcc ttgatgttgg 180

aacattatta tggcatgagc tgactgacgt ggtagtatca aactcctgat tctctatgat 240

cagtagcact cacttgtacc accaattagg aaatgatgtg ca 282

<210> 51069

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G2

<400> 51069
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 ataactgtaa acgtatataa taaatgcagt cattgtcaca ttatgcttgt gaagtcctca 180
 taggaaagga taactcttga ataaaatgct ctggaaagta cctgcctaca atctggactt 240
 gcgaacaatc gaataaatgg tgacaatgag gctaattgtc ttacgttgta cttgatgaac 300
 tctagagtat tatcactcgt caaactgaaa acgggaacta 340

<210> 51070
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G4

<400> 51070
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 ttctaattctc atcaacaaat acaacaccct aatcatcatc taccaaca 168

<210> 51071
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G5

<400> 51071
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 acccgcggga gccaggcgcg cgatcgagcg agcggaggga ggaggaggat gatgcacgcc 180
 aagtccgagt cggacgtgac gagcctggcg gcgtcttcgc ctccgcggtc gccgaagcgt 240
 ggcgttgccg tggtcggcac cggcggcagc tgcggccgct actacttgca gagcccgtcg 300
 cggtagtcgc acgactgtgg cggcagctgg cgcaaggtgc tcaacgacca gggctggacc 360
 gagtgc 366

The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$. In the second part, we study the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$. In the third part, we study the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$.

<223> Clone ID: LIB3079-019-Q1-K1-H11

<400> 51074

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ttggacctgg ccattacac atgggtatga atgtaattac aaggggctaa ccccaaaacc 180
ctaaatggga ttctaacaaa gttgtttttt ccgttgggtg taatcatata agtattagca 240
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<210> 51075

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H12

<400> 51075

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ggcggatagc aagtttctc aaggggtggg aattgagcca cctttggaag tcgtcgctcc 240
cgcaaagcgc actccatggc ctgaaaccac ccccgagctt ccatccgagt tattggatga 300
caagcaaaag ctggaggata ggcacttgct aagaggcaac aaatcgtctc agccccgagg 360
caccacgaaa cggaagggcg accctcaagg gcaagataac tgatggagaa cgcactggca 420
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<210> 51076

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H4

<400> 51076

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<210> 51079
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-H8

 <400> 51079

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 acaacagctt cggcagcaca cccagtgcct atggaggctt ctacggtgct cttccccctc 180
 cgtatggcat gccctacggg ggagctgcac cccttggttt ccaggcgccc gcaccagcat 240
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 actccttcaa cactatgacg ctcaatccac cgaacgctac ttccgagtgg tatgccgact 360
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<210> 51080
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-G1

 <400> 51080

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 ccagctgctc aggatcgagg aagagctcgg tgatgccgcg gtctacgccg gagcaaagtt 180
 cagggcacca gtggagccct actaagaaaag gaagaggatg gggatgtttt cttgtggagc 240
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 cgtgtttgct cgagagctac tcaggtgatt ttgtcgtggg agcaccaaaa gcagaaaaga 360
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 gtcg 424

<210> 51081
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A1

<400> 51081

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gctgctggag ttcgtgcgcg tgggtggaggc caaggagcag gtggtggccg gcacgctgca 180
ccacctcacg ctcgaggccg tcgaggccg gaggaagaag ctctacgagg ccaaggtctg 240
ggtcaagcca tggctcgact tcaaggagct ccaggaattc agccacaagg gggacgccac 300
cgacttcacc aacgccgacc tcggcgccaa gcaaggtgga catgaacctg gttggcgtg 359

<210> 51082

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A10

<400> 51082

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gcgtcgttct acgtgaaggt gaagccgcag aagagcatgt gggttggctt actgaaggtg 120
gtggttggtg ctgtcaagaa ccgtgacctt gtgctgccag aggcagatca tggcgctcag 180
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<210> 51083

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A11

<400> 51083

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gctagagggt ctgtctggaa agaaacggga ctttctactg gcacacgcac atcatagaac 180
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gaacacttca tgcattgacac cg 262

51084 51085 51086

<210> 51084
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E5

<400> 51084

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tgcttccgca tcagcttcaa aggggccccat gggacctgtg tttagcagtt taatgtatga 180
ggaagacgaa ggaaatgaat cagaacttgg tgacatccat gtttcagcaa gggaaggggc 240
gactgatgac atagtgaagc ttctggcagc tgggtgttgag gtcaacgtga gagataccga 300
aggtagaagt ccgttgact gggctgttga tcgtggccat cttagtgtg tcgaggttct 360
tgcaaatacga aatgcagatc tgaatgctaa ggacaatg 398

<210> 51085
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E8

<400> 51085

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tatcaaagtt tcgcaatagg ccattccctc ttttttacag tttagaaggg ctatatgaag 180
gtagtgtggc taccggagag ttgaatttca catcaaccgc tgttgatctt cctccacctt 240
cagctccatc caggagtgtg tctggacaaa gtctcagtc tttgagtact aattcacttg 300
atgttgatgg acaagaaacc acaagtgtgt tcaatctatc ttgtgatgct caatctgtcc 360
gagtcaatac taatgaaccc actgaagctc aatttgtccc atctaataa gaatcaagcc 420
agagagaa 428

<210> 51086
<211> 418

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-E9

<400> 51086

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 ccgacccgtc caagcccata tacgtctccg tccggggcaa ggtctacgac gtcacctccg 180
 gccgcgggctt ctacggcccc ggcgggcgctt acgccgtctt cgcggggccgc gaggccagcc 240
 gcgccctcgg caagatgtcc aaggacgagg ccgacgtctc cggggacctc tccgggctca 300
 ccgacaagga gtcggcgctc ctgcgcgact gggagatcaa gttccaggcc aagtaccccg 360
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<210> 51087
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-F1

<400> 51087

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 cagacaattc taagcttatg agctttggct caaaccacca atatcttgaa tgtataaaat 180
 ctgcatatga ttttgcaagt ggtgaattgt tgactctgat gaaagataag tatgatctca 240
 tcgggaaact ccgatccctg aagcgctatc tactccttga ccaagggtgac tttttggtcc 300
 attttatgga tattgctcga gaggagctta caaagaaacc agaagaaata tccgctgaaa 360
 aacttcagtc tctgcttgac attgctttac ggagtactgc agctgcttca 410

<210> 51088
 <211> 222
 <212> DNA
 <213> Zea mays
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<400> 51088

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ggaaagacag ttcattccat aaaaggacat cgggactact catttgcac ggcttggagc 120

cctgatgggc gaacatttgc taccggcaac caagacaaga catgccgaat ctgggacgtg 180

aggaaccttt caaaatccgt ccatgtgttg aggggtaacc tt 222

<210> 51089

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-F2

<400> 51089

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accatgaaag ggcagccaag aggcagcgag gcagtggtag tgaattctta gattctgagg 180

ctgagttttc ccttcgcgc cacatcttcg agtcgagttc aggtcagag ttccaacaat 240

actcaatgtc ctactcagga cagtagcttc tgatgttcac atcatctctg caccgttgct 300

agcttgttca gcacgatgcg catgggtccgt aggtctgggt aggttgatgt ctcaaggagc 360

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<210> 51090

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F3

<400> 51090

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cttgctcctt gtggcctatc gtgcggaggc aactgtctgc atgaggcata acaatttcta 120

tcacggccca tgcattgagca acaaggactg tgccaactcg tgcgttcaac ataacctcgg 180

tgtcggcggg tattgcaggg gcaagatccc attcaacaaa gaatgcatgt gtacatttga 240

atgcccata gtcaaaagcc actatatctg acgggcgcaa cttgttatat atctagggat 300

gggatgtcgt ttggcatgtc ctccattttg aaagtgtcca agtgagactt tatacatata 360
 tgcagttgag agatggaatt aataataaga gcaaacaatt atgtt 405

<210> 51091
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-F4

<400> 51091

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 gtaccagcat gagaagtcgt ctcagactga atctgataag aatagagatg aagagaaccc 120
 acatcttgac tatgaccatc tcacaccagc agagcgccga tacatgaaac agaagcagaa 180
 gatcgacatg cagaagatag ccaaagtcgc caacaagtca cacaaggacc gcatgcagga 240
 cttcaaccag tacctagcta agctcagcga ccactacgac gtccttaaag ttggctcctgg 300
 ctaacatggc caatctagct gtgttacgca cgaacaattg tatgctgagt gggctctatct 360
 agttntctat tagcatttta tatatcgttt tacagttggt gtaaaacgac 410

<210> 51092
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F5

<400> 51092

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 gctgtgtgtg tgcgtatttg ctgtggattt gagtgtgttg cttccctccc ttactctagt 180
 gctttcactt tgattcttat tgtaaggggtg agagactcca agttgtggag attcctcaca 240
 agcgggaaaag agtaaagaaa gaagaacacc gtggtattca agtcgatcat tggatcactt 300
 gatagggggtt gagtgcaacc ctggtccgtt gggacgccac aacgtgtagt atgcaagttt 360
 tgtacttggc cgaaccacgg gataaatcct cgtgtctctt gtgctagatc tcactatgtc 420

tattgtattt cac

433

<210> 51093
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F6

<400> 51093

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caccgagggtt cttacgcgcc tcgcaaacat aaaagctgct aagtgaatct ccaatggaac 120
tagaccgaca ataaatcgga agcagctgtc ttgttgatcg aggagcgcgg aatctgcaaa 180
ctggcccttc agtggttttg atgtgctgctg gaaacgtgtt atgatgtgta tataaaaaaac 240
gtagcatgtg ctgcatgaac tcctgtagga tgtctaacta ctgaagtgca gattcagcct 300
caactagtct actcgaaactg acgaatactg tctgaacatg tggctactgc ttgaacatga 360
catgttgcca tctgttggat tgtgcttc 388

<210> 51094
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F7

<400> 51094

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aagctcacag cgctgttggtg tttaaaggctg agagcatggc ctacaagggt gagtgggtaa 120
ataagatcaa agctgttatt cacagcaaag ggggttcttt caagggtcca agtactgagg 180
gtagttcaat gagcgcaaag caattttgat ggcgctttag atactatggc acgtacacct 240
gctgatcctg aagaagaact tacatggatg tctcaagaag ttcgtgggta tgctgaggct 300
gttctgaata gtctggcagc aaatgctcca aatgctattg tgctttgtca agtggagaaa 360
gcaaatagaag acatgcttaa ccagctatac agc 393

<210> 51095
<211> 423
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-E4
 <400> 51095

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 cgatgcagaa attgaaaaac cttgcaaaga ggcaggaatc tgagaacatg gccctcatac 120
 agaaaatctt gaaagatgag aaggaactgg cgactcggca gcaggaggtg cttgatggaa 180
 actgcaagaa gtacgacatg ctggaagctc tagtgcagaa gggagacatc actaaccttg 240
 ctcaacaata cggagtgaac ttgaacgact gatgagtcac tcgtgtcttt ttcceccctc 300
 cccttgagac gatggcgcaa ctggtgtgat gatgatggaa taggatagca tgccatagtt 360
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 ttt 423

<210> 51096
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-C7
 <400> 51096

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 gggctgctgg ggctcggggcg cggcgggctg tcgttccga cccagatctc ccgccgctac 180
 ggccggagct tctcctactg cctcgtcgac cgcacctcct ccggcgcggg cgccgcggcg 240
 ggctcccacc ggtcctccac cgtcagcttc gggcggggct ccgtcggcg gtcgtcggcg 300
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 ggcatcagcg tggcgggcg gcgcgtncg ggcgt 395

<210> 51097
 <211> 391
 <212> DNA
 <213> Zea mays

ggttcctcta tctattcact taagtatgaa aagcacaaga gctgggtactc atggatacta 300
tattctatga caagctgtgt gtacatgttt ggtttcatta tgatgtgccc ccaattgttt 360
atcaactaca agctgaagac tgttgctcat a 391

<210> 51105

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E10

<400> 51105

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caagaggatt tgatggagtt gttgcccact gaccagatat gcagcggaca tgaaaacatt 180
gatatggttg gaaaccagta tccatctgaa aatgcaattc aaggtagcga agataagaaa 240
ttctctatag cgtcaacttc ccagctgagt tctcagaatt tactgaatca aagacaccac 300
ttagattcca gttcaccaag caatattact tcgaagtctt atccaggaaa gtt 353

<210> 51106

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E11

<400> 51106

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aaatttggtc aggttattga agcaagagta atcactgata ggatatctgg atactccaga 180
ggatttggtc ttgtcaaata tgcgactgta caagaagctg gtgaggccat aaaaggcatg 240
gatggaaagg tcagcgcgatg tgtttgactg cagttaattt ccagcttcac tgttcattga 300
agacgttaac cacattgaat gttctttata atcctaaggc cctattccaa acctctagag 360
ctaataatta gtcagcta at 382

<210> 51107

<211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-E3

 <400> 51107

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 agcaacgtga acctggaggg ggtggacacc tgcgccatcc tcgccgaagc ctccaagtcc 120
 gtcgccaaca tcatcggcaa gcccagggcc tacgtgatgg ttgtttctca gggttcgggtg 180
 cctatggcat ttggaggtac ccaggagcca gcagcttacg gtgagctggg ttccatcgga 240
 ggctgaacc ctgatgtgaa caagaagctt agtgctggca tcgcttctat cctggagtca 300
 aagctgtctg ttcccaagtc acgcttctac ctcaagttct atgactcgaa gcgctcggac 360
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 g 421

<210> 51108
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-A6

 <400> 51108

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 tcacaccgcc gtctcccaag gctgtgtggc gaacatccct gactatgatg ctccacaca 180
 gctgggtcaag cccaaggaga ggaatgagag gtattgcatt ttgctctcgt cttttatctg 240
 acattctagc aactgccctg ctgctgcatg aagggttggg tctaactccc ttttttttca 300
 ggtatgttga tgctgtcatg acaatcccca agggaaacctt gttcccatg tgtggcatga 360
 accttgctt cgacagggat ctcatggcc ctgctatgta ctttggcttc atgggtg 417

<210> 51109
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A9

<400> 51109

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gtgcaggtgg tgccatcgat gaagcaactg gaagcaaagc tggaatggaa attgcagaac 180
ctcgttcccc aaagtttgca tctgatgacg atgctcctga agattcaaata cataaggatg 240
agaataaacac acagactatg agtggaaacac cagttagaca gtctgctaag aatgcatgga 300
aaaccttgaa aaggtacaca gacttatctt ctggagggtga atcgtctgac aataataatg 360
aaactgatat atctg 375

<210> 51110

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B10

<400> 51110

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tctctaaagg cgaagactct gaagtgggagc aacactcggc ccagcgggagc aacatgccgg 180
ctccggctcc gcgcacctgc tgacaccttt cgaagcactt tcacgtgtga accgaagtgc 240
tct 243

<210> 51111

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B11

<400> 51111

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agtaccccca ccagcatgcg gccccctctt actccacgac cgccaccgtc ttctggccgt 120
acgcgactcg ccgcagaaag agagccgagg acggcatcga cctctcgctg gcgtcagata 180

tggatctcga cgccgacgcg cagcgcgccg cagataagct gaaagcagtg tcagaggaac 240
 ttggacatga gatccggggtt ttttcaagtg agaactttgc tctacaaccg agcaagctgc 300
 ctagtgcaga tcatgaggaa ggtgacgact tttatgagct tcagcctgct gattactaca 360
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<210> 51112
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-B2

<400> 51112

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 acagacatgc aggatatatt taatataact gcaaaagctg tgaggggaga tgaggagtca 180
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 caggctcttc ctgccttggg gcctatgttg ttggaaactc tcctcaagca agaggaagac 360
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 gtggcaa 427

<210> 51113
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B3

<400> 51113

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 ccaactgcggc cctcttcttc tacgcggctc tcctgctggg cctggtgctg gtggcggttt 180
 ccacgtggc ccaggcgcag ccgacgccgc cgccgccgcc cagctcctcg tgccccctca 240
 atggctccgt gccgctatcc aacatcacag aggtccttgg actgctcgcg gagctggacc 300

tgaacactgc cgcccagtcg ctctgcaccg ctgtggaagg tgtcacttcc ctcgcccgcc 360
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 cgcatgcatg c 431

<210> 51114
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-B4
 <400> 51114

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 ttgagatatg ggtcaagtca ccttctgtaa aacagtacaa gcgttacgta ctgatactcg 180
 tgtccaagaa cataaacttt tggagcgata cctagaacaa ccctctccat tttagccttg 240
 tttttggtaa gagccttggg caaagaagtg ttgtcagga gttggacttg ttttgtggaa 300
 tgtttccatt aagagccaac cccacaccga ggattgcaaa cacagaagtt tgtattagtg 360
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<210> 51115
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-B6
 <400> 51115

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 ataacatgca tgtacagcta ggcaccatgt ctgaatgaca tcttcgttgc tagctgatgc 180
 tgctactgct acctgtcact ttggtgttct aaaagactct gatgaagcgt tctgaatgtc 240
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<210> 51116
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B8

<400> 51116

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agaagatggg tatccttgag aggatcaagg agattgagggc cgagatggct cggactcaga 180
aaaataaagc aacagaatat catcttggac aactgaaggc aaaactagca aagttgagga 240
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<210> 51117
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C11

<400> 51117

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gtacaagacg cggaagacat gaaacgagag tgcaagcagt ttgagctatt cccagcgaac 180
ccaaagttgc caccgtcggc agcatgttgt gctgtgtgga agagggcaga tgttccatgc 240
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gtcgccaact attgtaagag gccgtttcaa cctggctaca agtgcgggag ttatacagtt 360
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tgagatttgt aacat 435

<210> 51118
<211> 304

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-C12

 <400> 51118

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 tcttgaggac tcctacaatc agcttaggat gcgctctect caggacttga agggtagact 180
 cactgttcat tttcaaggag aagaaggaat tgatgctggg gggctgacaa gggaatggta 240
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<210> 51119
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-C3

 <400> 51119

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 cgcccttgct ttctccatcg agaagctcca ggagattcag gacgagctcg agaagggttaa 180
 tgaggaagca agtgacaagg ttatggaggt ggagcagaaa tacagtgaga ttcgcagacc 240
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<210> 51120
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-A4

 <400> 51120

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<400> 51121

<400> 51122

21899

1. *Pharmaceutical Innovation and the Role of the State*
 2. *The Impact of Patent Law on Drug Development*
 3. *The Role of Government in Regulating Pharmaceuticals*
 4. *The Impact of Health Insurance on Drug Access*
 5. *The Role of the Pharmaceutical Industry in Public Health*
 6. *The Impact of Globalization on the Pharmaceutical Industry*
 7. *The Role of the Pharmaceutical Industry in Developing Countries*
 8. *The Impact of the Pharmaceutical Industry on the Environment*
 9. *The Role of the Pharmaceutical Industry in the Future of Healthcare*
 10. *The Impact of the Pharmaceutical Industry on the Quality of Life*

<400> 51125

<210> 51126

<211> 384

<212> DNA

<213> Zea mays

<400> 51126

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taattgagac	cgactagaac	aaacaagagt	tggtagccc	gccgctcgac	caaatacacg	180
gcgccgtgtc	ctaattgccg	tagcacccctc	tcagtctcag	tcctagtag	caatcaatag	240
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<210> 51127

<211> 92

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-01-K1-H3

ccccgcagtt ggacggcccg ggagtacggc ttggctcctc acggaccgcc ttacgtcctc 420
gaaatcgtac gctcacg 437

<210> 51130
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-H6

<400> 51130

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gtccacaata gaagtcgacg gacattagtgc ctatccaaca gtcttagaat aaggacactg 120
atgttccaca gaactccgct ccaccagcac tagaggcttc gttgaggtag tcgccgacgt 180
ggcatacgta acctcgaagg attctgcttg taaggctact aacgaaatat acgagtcgaa 240
gtagcccttt atttcctgcg cggaagcagg taacgtagtc cccgagctac cggacagaac 300
gagggacgaa agtaagaaaa acataccaaa gtcagccgat acggaacgta gtcattccgat 360
agcagaccct cctaggaagt ccttttagga cgccgagagg ggcggaact taaattatct 420
ccaccccgac aga 433

<210> 51131
<211> 476
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-H7

<400> 51131

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cgcacgtgag tcgtatctta ccccccgctg cgcaaggaaa gcgaggtgaa cggccggacc 120
ctgagaccct gatagaataa cggcgaagtc ggaacggcca tctaactcga tcattcccg 180
gatagtaagg gcgacacgct aactcagac aatccataag tctgctgtcg acgtctataa 240
acccgggaag ggtaccgagt ccttatcagt ctctccggc acggtaggaa cgaactcgtc 300
taatacacc tcaggggtccg actcatccaa agtacctata tgagaaagaa attagtaaag 360

ttactaggac cgaacgcgtc ccctccgacg gcggcgcatc taaaaccccg agaaagtcgc 420
agccttgccct aagcagggtta aagagacacg cccaagctcc aaccagtaat catatc 476

<210> 51132
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-H9

<400> 51132

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cgaacgggga gccgatcccg agcaacaagc ggcacggggc cgcgaagatc tttagccacc 180
ctgacgtcaa ggctgaagaa ccatggttcg ggattgagca ggagtacacc cttctccaga 240
aggacaccaa gtggcctctc ggttggccgc tgggaggcta ccctggccct caggacctt 300
actactgcgc cgtcggagcg gacaagtcct acgggcggga catcgtggac gcgcactaca 360
aggcctgcct ctacgccggc atcgacatca gtggcatcaa cggggaggtc atgccggggc 420
a 421

<210> 51133
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-019-Q1-K1-A1

<400> 51133

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ctggctcgtc atcggcggca aggtgtacaa tgtgaccaag tttctggagg accaccctgg 120
aggtgatgat gtctgtctgt cttccactgc caaggatgct accgatgatt tcgaagatgt 180
ggggcacagc accaccgccc gtgcaatgat ggacgagtac ctgcgcggtg agattgatgc 240
ggccacgata ccagtaagg tgaagtacac gccnccaag cagccgcact acaaccagga 300
taagaccccc gaggctcgta tcaagatcct ncagtttttt gtcccccttg ccatacttgg 360

ccctgctggt gctgtaagga tctacaccaa gtcggaatct

400

<210> 51134

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-A11

<400> 51134

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cgtttccgcg ggcggggcggc ggccccagc gggaagatg atctgactac cgacgtacgc 180

agcacgaggc gttcggttgc atctttttct cttttgagta tatgatacta gcaacatcca 240

cggtatcaac attcgtgaag tatatattct atgttagtga catgctaag gaaggtcaat 300

gggagaaaaa ggcagtgat acattttact tggagctcat aagtgacctt gtgcacttgt 360

cattatacat gctctttctc atagttattc tntgaacta tggatgatcg cgaccgtgat 420

cttccatgt 429

<210> 51135

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A12

<400> 51135

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ccccctatgt tctaggtgcc agggtccttc ttatccttcg ctggctacta tcaactacca 120

ttctacccat tgttttgttc tgtaactttt cctctctctt actttctctc ctgagtttct 180

aatattatct tactacctac ttactcatca ctaatcttct ttttccatct tattctcctt 240

ttattatatt atactatcaa catccactgt atcaacattc tttaaataata tattctatgt 300

tatttacatg ctaatgtaat gtcaatttta aaaaaattct ttatatacat tttacttt 358

<210> 51136

<211> 353

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-A2

 <400> 51136

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 gagccagtgc gcctgctgta gacatgaccc tcaatgacac gctcaactga gccgtctact 120
 ggcatctatt ctacaagcac gtgtccaatc tgatcatcaa ggaccaggac gacatagatg 180
 tggataacct ctacttcgtc gataagctca ttgcctatgc ggacactaag cacatgcact 240
 tgaagagccg cgatatctac aatactacat gggcaccatg catcactaaa ttcacatgac 300
 acgaggctgc agattaccgg atctacatga tctacaatga ttgcaaggag gac 353

<210> 51137
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G6

 <400> 51137

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 taacggtgat gtggtgttat acttcgtctt gtgttgctgt tcctgcgctt tcctctgtgt 120
 ctgaggtcgc ggaggggttct gaagaggggt tttgtgggtg ttggtcgtcg gcttcgtcgg 180
 atgattcggg tgctgtggctg ctgtatctgg ttctctctgg tctgtcttag gtgtgtgggc 240
 ctgactctga accttgttct gttgatgatt ttaagtctct gtcgtattgt catgggttagc 300
 attctcatga cggttctgcg tcgcctgttt gtcttatttt atgccccggc ggactagcgg 360
 attagaatgt agcttccgaa cccaccgacg tcgggtccga cacgacttcg gtggtagaac 420
 ttctcgttct cgactcc 437

<210> 51138
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-F1

<400> 51138
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 taattaagtt ngttgtaggg tacaggggtg gctgaagaat gatgagaact tngngaaggg 120
 aggggtggagg agaaggaaga agaggggatg aggggtgaact tggttgagag aaggggagtg 180
 anggtgaggt cggtggcggt tgtgaggggt cctcttgctg tggttactgg tgggtggtgcg 240
 cttccggcgt aaggggtgcc ttggggggac tggttcagag cctgcgt 287

<210> 51139
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-F10

<400> 51139
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 cagcaggatg cctccgtgc ctttcaactt ctacagaaga ctgcctgcca ggtccgatat 120
 gtccttttga gatcacagta ttcggcggtga gagaatcggg tgcaagtctt tacttattta 180
 tgtctgttct gtcgggatcc ttctgattag tatcagatca gatgtgaata taccagatga 240
 gttcgtatat tagacgtcat ttagtggtccc atgaataagg cgttggctta atgggtcata 300
 tccttctgag tctctgggat agtgagggga ggctcttggg tgcagaaatg taatgttaac 360
 tacgggctat tagcatagaa ctaatggcag gaacaatatt atccctcgtg tattat 416

<210> 51140
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-F11

<400> 51140
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 gtagggcccc gtgtaccctc agcccgccg aggttgccag ggccttcggc ttccccacca 120
 cctccgcaa cgcgggcggc ggtggagacg gcccgctgt gccgacgctc catcttaacc 180
 gtttccggcc gtcgtacaat gtgttgctg gggcgtacct gcctgtgggc gccatgcggg 240

cactaccagg ttgcgcccac ggaggaggag gttcggatgg ggaggggccg gtgatccagt 300
 gcatgaagtg ggggctggtg cccagcttca ccggcaaggc cgagaaacc gactatttca 360
 ggatgttcaa tgccagatca gagtccgtaa aagaaa 396

<210> 51141
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F12

<400> 51141

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 accgtgaatt tttggaggtg gagactccga tgatgaacat gattgcttgt ggagcaactt 120
 caaggcctct tgttacacat tacaatgaat ttaacattcg gctttttatg cgcattgctc 180
 cttaattata tctt 194

<210> 51142
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F2

<400> 51142

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 tgaagaagta tatggtgaag gagactgttg tgaagactga tgtggtgatg atgaattggg 180
 gtggtggttaa gggtgggtag gtggattggt cggggtagga taagggtggg tacgtgaagt 240
 cgggtgcgttt gtctcgttgt attttggtgt ttgataactaa gcttacgtag acttattatg 300
 aggtgtgtta ttttaagtct tttcctgagt tgga 334

<210> 51143
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F3

<400> 51143

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actaagaccg caggggcggt cgcggtcct acttctgttc cgtcttcgc ccttgggccac 120

gcggaggtgg aaactcgtgt aaggttcaac ttccaccact tcggtgtacg taggagtaac 180

aaggatcgcg taggtctgcg tacctagtaa aattctggta ttagtgggca tcgtaagggt 240

agcgcttttt cccctaaact acgtcacgc attcccgaac gctttacgga agatgaggta 300

gaggagggac ggtatcagct gcgagttgtt actcgtacga tcaaacctaa agcactcgag 360

cgcccacgta accgattcgc ggaac 385

<210> 51144

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-F4

<400> 51144

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ttggtggttc tggacggttg aggcggcggt gaggactgag gctactgctt ggagtgtgga 120

gtcgaaagtg aaggttgata tggaggacga tgatccttac agtactctct ttcaattcgt 180

tagtgtggct gcctctcgcg gccacccta gactccgggc gtataccgcg tggtgacgca 240

tacgcctgca ataccagctg cctcctacca ccctctcgaa aa 282

<210> 51145

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-F7

<400> 51145

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ttctgagctt cttactaaga attcgtcgcc tgcgatgttg gtgattttga tgtagctgt 180

tactgcggtg gttagtaatg tgctttatgc ttaggttggt gcgtgctcgtg gtgtttgtta 240
 tgggtgctggt gcgtgtttgt gtagtggtgg ttatgatcat gagggttcgc ttcattgtct 300
 ttctagtgtg aggtgggttc ctgttgctgc tgattcggtt aggtcttggt ttgctagtgc 360
 tgatgtgagg aattggatgg tgcgggctgg gctgggtgtt atttccggtg agtctcatca 420
 tgttactgtg agttgtaatg tgtgttcggg g 451

<210> 51146
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F8

<400> 51146

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 tagccattcc cggcgtagcc accggtataa aatactaggg tataataatc ataataatcc 180
 gcgtcagtaa attccgctgt tcactctctag taatagtagc cctccttacc taattaatca 240
 gtcgtaccga atctcgtcct ccacccgtaa taataataat cattacctag ttagtcactc 300
 gtcgttcatt tttagtaacc ctccttacct aattaatcga tagtaccgaa tctcttcgtc 360
 caccatagt agtaataatc atcattacct agttagtcag tcggcgcgag tttcgtcatt 420
 cctccgatat aattat 436

<210> 51147
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F9

<400> 51147

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 tggactaaag catgcctcag gggaatttgt cattatcatg gacgcggacc tatctcacca 180
 tccaaaatac ttgccaagct ttattaggaa gcaaaaggaa actggagctg acattgtaac 240

51146-51147

tggcacacgt tatgttaaga atgggtggtgt ccatgggttg aatctcatgc gcaagctgac 300
tagcagaggt gcaaattgttc ttgcacaaac gttactgcag cctggagctt cagatttaac 360
cggatcattt aggctatata agcgagatgt cctggaagac ttaatctcct catgtgtcag 420
caagggtac gtgtt 435

<210> 51148
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G1

<400> 51148

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ccagcgagtg taataaacgt gcctaccacc ttatagagtc tatccgtctt cagcgtagc 180
accttatagc cttctttatt agccatccta acgggtcctg aatacttagt tgcgtaagtt 240
cataggcat aatcagtgtc cgtgggtgagt gttccataat aattaaccgt ttaaccgtaa 300
taataacttc cgggtatactc aatttcataa attaccgtaa tgtaataata ataataata 359

<210> 51149
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G10

<400> 51149

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cnagcatagc ttctctgect ctctctcccc tctctctctc tcgtccactc ctttgtccaa 120
agcttcgaga tggctcagca gcagaaggtg gtggtcaggg ttccaaccat gacagatgac 180
aagatcaagc agaaggccat cgaagctgtt gcggacattt acggtattga ctccatagca 240
gcggatctga aagagaacaa gatgaccatc ataggcgaga tggatgcagt agcgattgcc 300
aagaagttaa agaagattgg aaagattgac attgtgtctg ttggacctgc aaaagaagaa 360

<211> 132
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G3

 <400> 51152

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 aaaaaaaaaa aaaaaaaaaa aagaagagaa ggggaaaaaa aaaaaaagaa gaagaaaaaa 120
 aaaaaaagaa aa 132

<210> 51153
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G4

 <400> 51153

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 gcccgttttt acacctagcg ctcgcagaca agagatacga aacgctttaa gccctccccg 180
 acttacggcg aattcatcca aactcgcaga gacacatcgg gggaaaacgg aggtcgtggt 240
 aacttccgcy tagccgggtt gcggaacata gtacacgtaa gcgcccgcacc gcgtaatacc 300
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 tatcgtcttt gcgc 374

<210> 51154
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G5

 <400> 51154

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 gtagcctcgc agaaacggtc gacggcgagg atacttagtt ctccgctcgt gataacggta 180

ttggaacggc taaggctggc cccgtcggg atgacgtatt aagggtggcc cctttcagta 240
 ccgccggttg cttctgttat atcggcgcta cggcagggac gggatagaag gacgtacacg 300
 ccggtgacga ggtatagctt aagagaggca cctctatgtc taagcatttg accgagtatg 360
 gcaccgcgag taatcgggac gatacggaga aaactcggta ctacatccct cataatgagt 420
 cctgcgccgt at 432

<210> 51155
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-E8

<400> 51155

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 agtcaactccc cgacgaccta ccggccgagc gtccgtgcga cgacaacaac gggaacgccg 120
 tccggac 127

<210> 51156
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D12

<400> 51156

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 tgaacttata aacaaaagtt ggttttacta atttattaaa attggcaagt ttgtgatgct 180
 aaaatttcac attgaaggcc aaaacattgc cactcgttga gtcattgttc aaaagaacta 240
 cagggaccat catctgatgt aagcttgtga ttttgcctgg tãatccctta accgttgtca 300
 ggtggatata tctttaggac aactttgtgg ggaccacag gtctatattt ggctgatacc 360
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 gctg 424

<210> 51157

<211> 362
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-D3

 <400> 51157

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 agaagggttc cgagtttctt gagcctgagg atcttgccgt ttaggtccct cccgactcgg 180
 agaatgggaa ttaggagtct aacagtgatt ctaaggattc gcataactaat aacgtcactt 240
 agacggacgc cattgggagt aggaaggctg ccgctactta tgctttacat tgntcgtgta 300
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 aa 362

<210> 51158
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-D4

 <400> 51158

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 gcttgagaat ccttttgagc caaagttcga ggaggccgtc gggacgacaa aggatcccga 180
 cgaattcggga atctccgtat taatcggctc ccccgccgga ggcattgaagc atacggcgac 240
 ttaaggcgaa ttcggagccg ctacttgagg aaagaaggca tagcggggaa tagaccctc 300
 aacagaagaa acgtcccgac gttccccct gccgtccacg ccaacccccca tttaaaaata 360
 aatctaggct aactcgtag catcacacca ccacaaaac acgcaacacg gact 414

<210> 51159
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-D5

<400> 51159

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tcttcgnttg ttattgttct gtctgatgtt ttctcctgcg gttctgtcct agattcatga 180
gttctaactc gtagtccggc aaccggctgc acagctttct actactggaa cggcggggct 240
atcactccct ttatattcaa cgcggaactg aaggtagaga acttcaacga gacggccata 300
gttggcgcgt ccctaagttc ctagaaccct tcatgtaagc gtgc 344

<210> 51160

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-D6

<400> 51160

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ccatttcttc tcttaatttt ctcttgactc tcacaaaaga tttgaaccct gaaccttttt 180
ctgaatttgt gacttgtgtc ccttcctttg tttacctgg ctctcgacct ggtgtggacc 240
tgtcgtgtgg gagtttttga ggccgtgcgt gcgacctgga cgggtggagtt ggngtctgag 300
ggtagttagt tggcggactc gcttaagtat tttctcgga ctgcttttat gtcttagaac 360
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<210> 51161

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-D7

<400> 51161

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acatcacatc tcaggaagta aggatattat tgttacggtg gtttaagacgt ccgtaccgcc 120
 tgtctcttca gtctcccgcg taagtgttat cagcgtgatg tacaccttag ggtatccggt 180
 attagctacg ttaccgggca ttacgaattt acgtacgtag catcgtacga cgtaataggg 240
 gtccgttagt ccgacgggtg gcttgctttc gacgtcgtag taatcgccgg ttccattgtc 300
 ctagatgacg ttagcgacga cgttatagac gacgatgttc aatacgacgc tattaccgac 360
 gacgttgaat acgacgctat taacggctcc gttgaatacg aagctgtaaa agaagacggt 420
 ataacgctat 430

<210> 51162
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D9

<400> 51162

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 cacggcccat gcatgagcaa caaggactgt gccaaactcgt gcgttcaaca taacctcggt 180
 gtcagcgggt attgcagggg caagatccca ttcaacaaag aatgcatgtg tacatttgaa 240
 tgcccatgag tcaaaagcca ctatatctga cgggcgcaac ttgttatata tctaaggatg 300
 ggatgtcctt tggcatgtac tacattttga aagtgtccaa gtgagacttt atacatatat 360
 gcagttgaga gatggaatta ataataagag caaacaatta tgttgt 406

<210> 51163
 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-E10

<400> 51163

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 atcatcagtg tagagtgtcg gtaggtgtct gtctctcttg gtggctgggt gcaacgggtca 120
 tggcgacgtc gtctcgtcgg gtgcccttgc tgctgctgtg cctgggcgtg ctgggtgtcct 180

gcggctaccg ctatgtccag tgaacagtgc cggtcgacgg tcataggttc tgagagagag 180
 tgccggcaact cttatagaac cctcagagcc acggcccgtt ggcgctggct gccgtcgtcg 240
 aaaaggatcg gaccgaaggc ggcggcgagg tcccggagtg cgcaagtcct ggacccgcgg 300
 ccaaccggtc gcgaaacaag gagagaccga gagggataga aagaggacga ccgcaagctt 360
 agtgactcac tacacact 378

<210> 51169
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-E5

<400> 51169

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 gtagttttag agggagggag aatagtagga gtcgtagttg tagttgtagc ttactcggca 180
 gcaattgtag tttcgtgggt aacggatgca gttggagctt cggaggcgag tggagtttga 240
 gcttcggagg cgagtggagt ttgagcttca gaggcgagtg gagtttgagc ttcagggtcg 300
 attgcagttt aagttttaac ggtaacggca ataacgacgt cgtcgtcgac gctgacgtcg 360
 acgtcgtcgt ttgtagcggc ccttttatcg gaagtaagct atttcgagtg tcggtggggt 420

<210> 51170
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-E6

<400> 51170

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 ccgttaacct aatgtcggag aattaatcga ggactccaaa aggatccctc gaaaactatt 120
 acgaagtaca cgagcttacg gcgaggcttc gcagctgctc tatacacggg aagcgggtag 180
 aggcggtcat caattaatac taagaaccaa ccacaagact accgccggtc gtaagggacg 240

tccgttccga gacaagggtcc tatacgtgag agacgggtac agtagtcggc gccttaaccg 300
agtttagacct ataaatatgg tcatacagacg ttatcacgaa cacggagggc gccccatcgg 360
tcggagccct gggagtcggc ggt 383

<210> 51171
<211> 418
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-D10
<400> 51171

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cacgtggttc gcgtactacg gccgccgctt cctggaaacc agaggcatca tcgctaacac 120
ggcagccgag ctggagccag gcgttcttgc gtccatcgcc ggcggcagggt gcacgcctgg 180
cgggcgtgct ccaacggtgt acccaatcgg cccggtgctc tcgccgaagc cgcgcgtcgt 240
cgtcgatgct cggtcgtcgt cgtctgcgca agagtgcac cggtggtctg acgcgcagcc 300
gccggcgtcc gtctgtgtcc tctgcttcgg gagcatgggg tggatgaacg cggagcaggc 360
gcgcgagggtg gccgncggcc tcgagcgcag cgggcacagg ttcctgtggg tgctgcgc 418

<210> 51172
<211> 417
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-E7
<400> 51172

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tgtcgtcgaa ttaggagcct tacttactgg tgtctatctt tatgactagt gctgctgtcc 120
acttgtaaac actctctcct tctcccgtag ctggtattac gggccttgat cctaaactga 180
cttttccgac tgacactggt ttgtccgctg aaaagaccga cgacttaagt acggttaatg 240
acaaggaccc atcgtaggcc gcttggccat cggacgacgt ccgtaaggag gttggacctc 300
ctcacgcgaa aggttacggc accgacgagc tatcgacgag ggaagctagg aacgcaattt 360

gcgaacctcc ctagtccttc cacgaggaaa aacaaaaaac caagacgata ttctaaa 417

<210> 51173
<211> 61
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B3

<400> 51173

ggaactttgg gcggatttag tgcttgttta gtgcttgttt atgtgcttgt ttatgtgctt 60

g 61

<210> 51174
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-B4

<400> 51174

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taccctggag ctttacccta tctgatctta tcgtcgcgaa accgcctgcc ccgggggttac 180

tccatcgcgt atgcgttccg acaccgtaaa aaaacaaaac aaacaataac attcaaacaa 240

agggcggccca ccgaagtctt cttacctctt ccgtctttaa ataaaccttt tccgtccnta 300

aacaaacttc aacgcaaagc cccttaacac cgcacgggaa cactcacccc ccatagactt 360

acacacggac agccgaaccg caaaaaaaag aaaaagggt 399

<210> 51175
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B5

<400> 51175

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<210> 51176
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-B6

<400> 51176

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gtggtgggtc tgggtgaattt atttttgttg tggaaatggt tctaggcatt ctcttgtag 180
ttgtcgtaa gttctgtggt gctaaggatt gttctaaggt gaggaattag gtttgttggg 240
cttggtcgga tcttttgttg ttggaggcgg cggcggcgtt gaagaagaag tttgtttttg 300
atgtgctgat gctcttcgcg ttgaagaaga aggcttggtg gaaggggagc gaggagacga 360
gtttgggtga gaa 373

<210> 51177
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B7

<400> 51177

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tcgtcttcgc gtcgtgtgtt ggggtgttgtg gagtcggtta ggtcggagta tttgtttaag 120
gatgggtggc tgtctagttc gtctgctgct ggtgatcggg gttgaaaggg tatgcctaata 180
tagcttaggg ctgtttacta gacgggtagg gccggggagt agtctagtag tgatcctgct 240
acacttattg gtgataatcc tcatgagaat ggttcgatgg gtatggacga tgagggtgcct 300
gagtagctcc ctattgacac tcatatggtg aagagttcgt agaagttgag gcattcggcg 360
tcgggaaatt acgatcatag gggcgatgtg tctgtgta 398

<210> 51178
<211> 449

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-B8
 <400> 51178

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 cgccatagag tcttagaaac ctgcgtccgga gtgtggtagc accttatatt agccgacgcg 180
 cggtcgcgg gtcgcactcc cgtggaaacg gcgaattaaa agttatcacc tttcggtgac 240
 ctgcgagactg atgaatcccc caagacacct aggacatcag gcatattgaa cgagtagagc 300
 cggtaggag ctagccgccc gttcgatcct aagatagtcc ctttaggcg gtaagtctag 360
 gattcggtaa tagcagcttt aaactccgat ttcgtcngc cggattcctc tctcaaaacg 420
 tctgacatg agttaaagta aagaactat 449

<210> 51179
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-B9
 <400> 51179

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 agagacaggg ttgagtctcg agatggtaga agagattatg aaagggatcg tgatagacgt 180
 catgataggg acaggcgcca tgaccgtgat cgggataagg attatgaccg gttccgtgga 240
 catgattcaa ggaagagaga gcgttcacgc tccagggagc gcagcaggcg ccacgagaga 300
 tactaaatgt tacaccatgc ctgacagatt taggagtact ggcggcgtct gttcaagata 360
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 ggagtgt 427

<210> 51180
 <211> 280
 <212> DNA

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tgtacgccga cttctactcc gccgtctacg acatgggtcaa taacccatgc agctacaggt 240
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gcgcgcggag cggcatgtct ggcgcgtacg cgtgctccag cccggcgtcg cacctgagct 360
gggacggcat tcacctcacc gagggcgtct acaagcagat caccgacggc tggctcaacg 420
ggccct 426

<210> 51183
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C2

<400> 51183

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tgttcttgta ggtcgtcggg gggtagttat tgtagcgggg cgggactttg ttgttgacgg 180
tgtagtagca tgggtgtattg ctcttgtagt agttcttggg gacgcggggg tagttcttga 240
tgtaggtgta tcatgggtag gtattaattt tctagtagca tcatgttgtg ttgttggcgt 300
tggcgtaagt gtt 313

<210> 51184
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C3

<400> 51184

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catgaaggac ctgggtcccag agtcatcatt tactagaagc tcaggaacct gcctagagtt 120
atcatccagg accccggcca gagaccaacg acatcgcccg gccctcgcga taaccgaccg 180
aaagcacaca tcc 193

[illegible]

<400>	51185
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<210>	51186
<211>	386
<212>	DNA
<213>	Zea mays

<400>	51186
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<210>	51187
<211>	395
<212>	DNA
<213>	Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-C6

<400> 51187

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attagaatth tagggcgctt tcggcttcta atactggtgg tgcgatggcc ggttgtgctg 180
ctactgagtc gcctgttgat aaggcgttta agatggtgga gaatccttgg tcgtcgcgta 240
ttggagagtg tagtgcgggg aagcggcttg gtaagtgttc gtatcataag ggtgtggtgc 300
cttattgtgc ggcgtttggg cctacgcgtt aggggtggtga tactatggtg ggtaatggta 360
tgggtggtga gctcgtgact ggcgatgttt ggcac 395

<210> 51188
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C7

<400> 51188

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cgcatth 67

<210> 51189
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B2

<400> 51189

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gaacaaaaac gatagaaagg aaatcgaca gcctgacgaa cgggtagccc gttgcggccc 120
cggaacaaaa aaaaaaaaaa aagcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 180
ggtggttgcc tccgaggatt taacccacg attttcgta cgtaatgcta aagcctccta 240
ccagggtaat tcaacccaaa ctaacgcggt tgggcccaat aatcctggaa tcggaaaaat 300
tccggggcaa ttaatccaaa ctgtctcgga gaaaactttt c 341

<210> 51190
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-C8

 <400> 51190

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 ttacgagggga acctaaggaa ccgcggggacg acgatatatt cacattcgga cacaccacgc 180
 ccctaaattc aaccggcgcg acccgctcga aaaccgctcg tcccgtcccg agcgatcatc 240
 aaccgacggt ctatacagcc gacaatttga agcagtgccg tcggattagc ggagtagcat 300
 tcgatacgtc cgaaaccgga tccagacgca gg 332

<210> 51191
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-C9

 <400> 51191

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 accaagtgcc gccgcgcccc ctgctcccc ggccgcccga actgccccgc cgccgccagc 180
 aacgtctgcc cgccctacgc cgtgggtctac ggctccggct ccacagccgg tctgtctatc 240
 gccgacaccc tgcgcgcgcc gggccgcgcc gtccccggct tcgtcctcgg atgcagcctc 300
 gtgtccgtgc accagccgcc gtcgggcctc gcgggctttg gccgcggcgc gccgtccgtg 360
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 aacg 424

<210> 51192
 <211> 74

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H7

<400> 51192

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 ctctacaact acag 74

<210> 51193
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-H8

<400> 51193

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 cgggaagtca tgacagcgat atcggagagc agcagaccag atgtggagct tattctgggt 240
 gggacaaccc ttcttaccac agacgacatg tttgagttga tggtgggatc gtcaagcttt 300
 gcttaggctc aaccttcaact cttgagtcac gtgcgggact tggaaagaaa tcggagcata 360
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<210> 51194
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H9

<400> 51194

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 ccaatggggg ccttttcttc ttacgcgggt tttctggttg tcctggtgct tgtggcgggt 180
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aatgggttcg tgcgggtatt caacattaca aaaggtcttg gacttggtgc ggagcttgac 300
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<210> 51195
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A1

<400> 51195

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 gtatagagag tactaataat aagtcgtagt cggcgacgaa aagtggtaag catatttcgg 180
 gtcataagat tggctcgaag atgtcgtgta atcgtaaagg aaagtcgact a 231

<210> 51196
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A10

<400> 51196

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 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcacgccc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatccc cggggcccgg acgcgcagct 360
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<210> 51197
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A11

<400> 51197

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gctagatttg agaatagatag aactatatcg ttcatacctc ctgatggatc ttttgatcta 180
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aaacattcta gaagccgtat agaactcatg gtgaatgcaa ggagtcagtt taaagaaaga 300
agcacagcaa cgaatgttga aatttgaatg cctgttcctt cagatgccac aaacccaaat 360
ataagaactt caatgggggc tgctgcatat gctcctgaga gagatgcaat ggtttggaaa 420
aataaatc 428

<210> 51198

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-A12

<400> 51198

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tcacagaatc ccagagagcc gacaagtgtg aggggaagct gtgaaacggt aatattttca 180
gctaattcca ccttattccc atgtgaaggc acagttaag gagcttcagc ggtgaagctg 240
tttccaaaag acctgcttgg caaaaaaaca gtcacaaca tctcatgaaa ctgttggtga 300
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<210> 51199

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-A2

<400> 51199

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ggtcgggtttt gtacggggct gagtaggtgt gtgtggttgg tgaaaagcct tggaaggagt 180

ccgatgagac cggcgcgttg gcgggccttg ctaagacctg ccatctgttg cctctatgga 240

ttattgagat ggtcagagcg gctgttggcg cgtctggtac ttttcccgaa gtcttcagcc 300

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<210> 51200

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A3

<400> 51200

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cggacttatt tttaaagctg atgagaatag taagaaatcg aaaagggttca aggtccggaa 180

gtacatttaa ttaaccatat tggatatggtc gaaatagacg tgcgacgagc ctcgggatat 240

ggtcttgat catggagggt aaaaagagac tcgggacgtc tcgagggccg ttgtggagct 300

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tacgatgtct 370

<210> 51201

<211> 409

<212> DNA

<213> Zea mays

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<400> 51201

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tcgaactcgg actcagtagt ctagtcagcg atgcgaatta tagacagcgt taatcgagaa 180
 cgtagaacgt tacggcgcaa atttcataac aggttttttaa gaatacgact aacgtatcat 240
 tctcaacggg tacaacacgt cggtaaccgt cggctaagaa cttctctagg ccgagtcccg 300
 ggatacccta agcgtcagat agactgcaat tccgttttaa atacgcagcg ttaacgtgat 360
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<210> 51202
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51202

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 gtccatcttg aggagaattc tgatgataag agtgagtcct cttctagtct taattttgcg 180
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 gcgtagcatg ctgatgaggt cccttttggt gttgtattca acccttcctt acttgatttt 300
 catgattgtg ttaccgtctg tctcggggt cttcatgctg atgataagcc tcatagtgtg 360
 cggacatttg cgcctagggg taggaatggt ggagaaacgg tggaagtggg gaggt 415

<210> 51203
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A7

<400> 51203

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 ctatctgtag tcatactatc ggtcattaag tccttaagga cgatccggtc gtcatatcc 240
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329

<210> 51204

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A9

<400> 51204

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cagccgcac atcggcatga acgaggccga gctccacggc cgccgcatga gcgtaacga 120

ggcctactgc cgtggccgctc gaggcggcgg ctacggcggg tacggtcgcc gtcattggcgg 180

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ctactacggc ggtggcaact acggcggg 268

<210> 51205

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51205

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tcccgtacgc ccgcctggcc ggacgtaaca acgggtcggc catcgtccct acgctgaact 180

cgaccatcct cgaccgacgt acacttcccc cggtcggcgg tcagtgaacg tccctagaaa 240

ttattctcct cgcccagtcg ccccggttag caagctaagt agcgtcccg ccccgcaaaa 300

caggtacctc ccacgccaac aaactcgac agaaataaaa ccggctacct aacaactaac 360

agcaccacta gaaccatacc ctcgcatcat aataaccacc ccaactaata aggcc 415

<210> 51206

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B10

<400> 51206

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gcgaggtgga ggagaacatg gcggcgtggc tggttgcaa gaacaccctc aagatcatgc 180
ccttcaagct cccgccgctc ggcccttatg atgtccgct gcgcatgaag gcagtgggga 240
tttgcgagc cgatgtgcac tacctcagg agatgcgcat cgcgacttc gtggtgaagg 300
agccgatggt gatcgggcac gaggcgcg gcgtggtcga ggaggtgggc gccggcgtga 360
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<210> 51207

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51207

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cgccggagaa cggctctctc gctgccggtg gcggagccgg cggcacggcg tgcaacgggg 120
cgggcgccgc gtctaacgga cgaggcatgg agaggcagct gacgtcctcg gccgcgttcg 180
cgtcttgggc ggcgacactt cccctggacg tgggcacgcg cgtgatgtgc ctgtggcgcg 240
accagaagct ccaccggctc aaggatgatc agcgccgcaa gggctccgcg tgctattccc 300
ncgtcgacta cgagtattac gttcactaca ccgagttcaa tagaagactt gaccagtggg 360
ttaagctcga tcagcttgat cttgacactg t 391

<210> 51208

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H6

<400> 51208

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gtaggtgcac tctgcgtggg ggcaggatgc catataccag attggtgggg atgccaatgc 120
gaagaatatg aagttcactg agactgttga acttcatatc gttctgaaga attatgattc 180
acacaatgac aagcgtttca attgcttctg ttaaagttcc ccatatccct agtcccaaga 240
tgaatgtgtt cattcttggg g 261

<210> 51209
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B12

<400> 51209

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ggacgttaca agatgtctac tctctcagac ccctcaaaag aagatacttc acctgagggt 180
tcagggtacta cccagagaaa tggagcctgg agtaacacat tgaacactct tctgcagcaa 240
gcctcagtat atggtgtggc cgctgggtat tggttatcag cgtccctgct ctcgatcatc 300
aataaatggg caatcatgaa atttccatat cctggagccc tgacagctct gcagtacttc 360
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aact 424

<210> 51210
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G10

<400> 51210

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agctgttcat attttacact ctaccatcat atgatcatat ctagcgaagt aaaataaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaagatga aaaaaataaa aaactaaat aaaaaaaacc atgcattgaa 240
cttcctaatt 250

<210> 51211
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G11

<400> 51211

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gtgctgcggc tcgtggctcg cgttgccgtt gccgtcgccg tcgccaagta aagagagaca  180
gggaggcaca ctagacggcg gcgtggacag gagcgagtca agcagaggat ggaacgggga  240
ctgcaaccgg cactggacta ccatgtcgac tatgataact tctatgggga ttctgaagat  300
catgaagttc agcgtctacg tctgcgtgca cgtctcgctg acctacgtgg tcacctacga  360
cttcaagacc gtctagaaga tcatgggca                                     389

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<210> 51212
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-G12

<400> 51212

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tcaaggagct gaagcagctg gagagccgcc ttgagaaagg catctctaag atcagggcca  180
ggaagagtga gctgctggct gcggagatca gttacatggc caaaaggag actgagcttc  240
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tgaccgtggc acggtcagtt gcagcagcag cagcagctgc caccaacttg gagctgaacc  360
cattcttaga gatggatacc aaatgcttct tcaactggcg ncccttcgca acgctggaca  420

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<211> 445
<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-G4

<400> 51213

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 cgcggcgact ggggtctacga gaacaacggc gggacctgcy tggccatcgc cggcgccgat 180
 tactgtgtcg tcgcgggcga caccgcctc tctgtcggat acagcatcct cacgcgcgac 240
 cactctaaga tctgcgacct ggctgacaaa tgtgtactag catcttctgg ctttcagggt 300
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 aacaaaagga tgagcttgcc tgccatggca cagctnctct tcaataccct gtactacaag 420
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<210> 51214
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51214

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 gcggcttatc ttgcgcggca agcagcttga ggacggacgc acacttgctg actacaacat 240
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 caagaccttg actggcaaga caatcacctc tgangtggag tcctcagaca ccattgacaa 360
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 ttgccgcaag cagttggagg atgggagg 448

<210> 51215
 <211> 318
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G6

<400> 51215

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cgcggcgact ggggtctacga gaacaacggc gggacctgcg tggccatcgc cggcgccgat 180

tactgtgtcg tcgcggcgga caccgcctc tctgtcggat acagcatcct cacgcgcgac 240

cactctaaga tctgcgacct ggctgacaaa tgtgtactag catcttctgg ctttcagggt 300

gatataaaaag ctctgcac 318

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<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G7

<400> 51216

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cgccggcatc gccgagttcg tcgccacctt cctcttctc tacatctcca tcctcaccgt 120

catgggcgtc tccaagtcca cctccaagtg cgccaccgtc ggcatccagg gcatcgctg 180

gtccttcggc ggcatgatct tcgccctcgt ctactgcacc gccggcatct ccggcgggca 240

catcaaccgg gcggtgacct tcgggctggt cctggcgagg aaagtgtccc tcaccagggc 300

ggtgttttac atcatcatgc 320

<210> 51217

<211> 140

<212> DNA

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<400> 51217

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cccagacaga gcgacagacc gactgacatg gcctctcaca tcggctctca ccgaggccgt 120

ctactagggc ctctgatact

140

<210> 51218

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G9

<400> 51218

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attttcgccc tgagaatgag atattatata gataacatac atacatacca tattcgttgc 120

c 121

<210> 51219

<211> 231

<212> DNA

<213> Zea mays

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<400> 51219

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ttgaacggca ttcaagttta caaatccttc ttacgtgcg cttccgtctg cattcagggc 180

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<210> 51220

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-H10

<400> 51220

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caactgttcg tcgttggttt cgacaccgac agctgttcgt ctgccctgc atatgcgtct 180

ctctgctgcc aggtcaagg gctccacgct cgtcaccaat ggcgtgataa cggccgggtc 240

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<210> 51221
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ggctt 425

<210> 51222
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H2

<400> 51222

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<210> 51223
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F8

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<210> 51224
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H3

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 aacaagaact gcaatcactt cacagatgat gtctgccaga acttaactgg gaaacccatc 240
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 agcgtacaag 310

<210> 51225
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H5

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tagctgccta caaccattcc acagtgccag gtactaatgt tacttctaga cccattcacc 180
tagattattc aaagatctca attgcaata 209

<210> 51226

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E11

<400> 51226

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ctcctcgaca tctccgccgt cgtcgatgac gccttctctga caaagtatga catcaagctg 180
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atgcttcaaa ctctggtgac aacaagttac atgggatgca ttggaaagga caagtttggt 360
gaggaaatga agaaaaacgc tcaagctgca ggagttactg ctcattacta 410

<210> 51227

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E2

<400> 51227

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tctaaattta tttttttgtc cttcttctaa a 211

<210> 51228
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-E3

 <400> 51228

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 tttcatatgg agaaagtcag atgttgata aggcatTTTA tgaggaggaa gtcaagaggc 180
 tatgcttgct ctttgagcag cagttccact acgctgtttt cttcgcttac atcaggctcc 240
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 cccgggtcca tgacagtgtc ggcttcataa tctgagaacc cccggcacta tatatggatg 360
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<210> 51229
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-E6

 <400> 51229

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 atctaataga ctatatgaca taactttaag actcagtatt ataaatgcag ttaatagaca 180
 aaataaaatt cccccccat ccacatgctt gcgacaaaaa gggcgtctat tct 233

<210> 51230
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-E7

 <400> 51230

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gctgctccca ttagaaatat aatagcgtat gttatgttga tgcataata tatgcatcat 180
ccatctacct gtgtggtgca aaattctgaa taaaacctga ataaacctga ttgattaaaa 240
aaaattaatt ttatctctca agttgaaaat attattttta ttttttaatg tatatatattt 300
ttgttctttt tttttgtggt ttatatatttt 330

<210> 51231
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E8

<400> 51231

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aggctccccg atgaactccc acctagctgc tgctcttgcc cagcgtgaga agcaacagca 180
gacgatgaga agcctcagtt ctcgtgacct tgggcccagt gcggcacgag cttcagctct 240
cggctcccct ctaagcacat catggtctaa gtggggatct ccttcagggg taccagactg 300
gggcgtacat ggtgaagaat tgggtaagct ccgtcgtca ttcgcgttcg agctcatgtc 360
tcgctgcgat gaccctgac ctccttgggt gcataactg 400

<210> 51232
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E9

<400> 51232

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catagtttca gtttgggtccc ttgattacgt tgctctcttg accattttta ggtggagtgt 120
tcatatcagt gtcagccctt tgttgaatt taactattaa attcattcgt aattctcttg 180
tagtgttata atcaaagtgt taggttgcag gtaaccatag gtatcctacc aaattttgtg 240
tttgtggacg gatgttctgc ggggtttttt tttgtgtgct gatgctatct ggcattgctt 300

atatcggttt cttgtgttga tgaacgccga tgattgtttc cacttagttg tctgatttac 360
aatagttaac acgacacgac atccattcta cacattatta ccttaaactg aagaatctga 420
tg 422

<210> 51233
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-017-Q1-K1-F1

<400> 51233

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agctggtctc aagtccaaag gaagcctttt cccgtgtttc ggctgatcgg agaaacaaac 120
ttatgaagag tggcctatct caatcatatt caacacacgg agacaaaaat attgtgaaat 180
tgagtaaact aacagaaacc aataggaggt ttggtggagg gcggggccctt gaaccgnctg 240
ctatcaacca gggtgcaatc acccagcttt cagaacagat ttcaaca 287

<210> 51234
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F10

<400> 51234

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gaagcacata agatctacaa ggacacaaca catggttgat caactgacag aacttcagaa 120
aaaagaacaa atgttttgtg aagcaaataa gtgtcttcga agaagactgg aggagagcaa 180
ccaggttata tggcagcatg cgtgggagca aagcgagcgg cattctgaag tgcagccgca 240
gcagctcaat ggcaataact tcttccatcc cctcgatggt gctggtgaac ccacccttca 300
gataggggat ccttcagagg cactgactag ctcatgcatg accaccttcc tgcccccggtg 360
gttgccatga gatcgaacta ctgcgcaatt ccgaattaat aagcatggcc gcatgc 416

<210> 51235
<211> 407

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-017-Q1-K1-F12
 <400> 51235
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 gcgctccgct ccgctccccct ccgctcccga acggctcgatc tttgcatggc agcagcagct 120
 ggctccaagg ggcgggcgat cgctggaagc ttcgtcagcc gcgtcctcgc cggcaaggcc 180
 gcctcgccga ggagggccgt gcacgcctcg gcgtacgaca agaacctgga ggaccagggtg 240
 cgccccggcgt tcgtgccgga cgatgtgatc ggcagcgccg ggagccccga caagtactgg 300
 agccccacc ccaagaccgg cgtcttcggc ccggcgggcg tggaccccaa gctggccgct 360
 ggtggcgcg cggacgccgg cgcggatgct gcaggaggca cggtgct 407

<210> 51236
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-017-Q1-K1-F2
 <400> 51236
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 aggctccccg atgaactccc acctagctgc tgctcttgcc cagcgtgaga agcaacagca 180
 gacgatgaga agcctcagtt ctcgtgacct tgggcccagt gcggcacgag cttcagctct 240
 cggctccccct ctaagcacat catggtctaa gtggtgatct ccttcagggg taccagattg 300
 gggcgtagat ggtgaagaat tgggtagctt cggcgttcat tcgcgttcga gcttaggtct 360
 ggcgcgatga ccctgatctc ttctgggtgc atacac 396

<210> 51237
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-017-Q1-K1-E10
 <400> 51237

gcgttccctc accagggcgt ccatcccagc agccatggcg atggcgtaca agatggcgac 60
ggaggggatg aacgtgaagg aggagtgccg gcgctgggtc atggagatga agtgggaagaa 120
ggtgcaccgc ttcgtggtgt acaagatcga cgagcggtcg cgcgccgtgc tggtaggacaa 180
ggtggggcggc cccggggaag ggtacgagga gctcgtggcc gcgctgcccg gcgacgactg 240
ccgctacgcc gtcttcgact tcgacttcgt caccgtcgac aactgccaga agagcaagat 300
cttcttcacg gcttggtcac cggcggcgctc gaggatcagg gccaagatcc tgtacgcgac 360
atcgaagcaa ggctgcggc ggctgctgga cggagtccac tacgaggtgc 410

<210> 51238
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F4

<400> 51238

gcggacacac cacaggcgcg caagcccaac cgatcgagca gctctagcat ggcgagcggc 60
ggctactact acgaccagag cgcgggctac ggcggtctaca gctactcggc ggcgccgagg 120
acgacgccgt cccacctcct ggtgttcctg gccaccgtgg cgctgctggg cgccacgtcg 180
ctctactcgc gctacgagtc cgcggtggag agcctgggtg accaggtgcg gttcgccgtg 240
gtgctgtccc cgctgctgct cctgctcgcg gtccagtact gggc 284

<210> 51239
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F5

<400> 51239

aaagaaacaa aaaaagaaca caaaaaataa aaaaacaaac aaatataaaa taaaaaaggg 60
gaaaatacta ctacaacgag aacgcaaaac taaggcagct acagatact 109

<210> 51240
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F6

<400> 51240

ggtaaccagc tgccgagggga ggaaccctag cggcacactg tgcattgtgac ggccggggctc 60
ttcactacga ccggagatac ggctgcatcg gctacatcta ctctctctcc atccacgacg 120
acgccgcgca agctgccagc ctgcatggtc acctgactga tattactcgc taactgtgtc 180
tagcaagcct aatagtcac catggatagc cttaagcacg aaacactgga cgacaccatg 240
ctggccgctg ttgatctcat gcttgggctg caatactgtg tgataccgga cga 293

<210> 51241

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F7

<400> 51241

aaaaaaaaa aaaaaaaaaa aaaaaataa atataaaaaa aaataaaaaa aaatgaagga 60
aaaatataaa taaatagaat actattaata aaaaaaaatt tatatcgtat actatcttac 120
ttaaaggatc caattattat ttttgctttt tttctcactt ttaatatattt atatatttgc 180
acttaatttc aattttttgt tcttatttta acatttttct tacctggata accttttgct 240
ttatccattt aaatattttt t 261

<210> 51242

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C3

<400> 51242

atccgccgcg ccggactgcc cccgcgcgac ctacgcatcc tcggccccgt tttctctcgc 60
tcctccagca tcctcgctag ggagaaggcg atggtgatca acctcgaatt catcagggcg 120
atagttactg ccgaggaggt gctcctgttg gaccctctca tgcacgaagt gctccctttc 180
gttgaccaat tgaggcagca cctgcctctg aggagccggg tgggtgagaa tgggtgagtgt 240
gccctgatg gcaatgggga aaaacagaat ggctcgctta atga 284

<210> 51243
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C4

<400> 51243

gcgttcaagt accaactcta acatgagacg ttcacctaaa ggatcatgcac cgaactctgc 60
ctggtcagaa agaattgcta ggcgatcatg cgttcacttc gaggagctca tatgtctaca 120
cttattaagc tacacacctg acataacttca tggcaccatc taccattggt ctacagcgac 180
agcttgtcga gacattgact acctcaggac gattgctgga catcgtactg ttcctgtcga 240
aatctgaaag aattacgtgt gtaccgagtg gaagcacgag cttatcacat tttatca 297

<210> 51244
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C5

<400> 51244

cgccctcttg ctccgccggc gcggccaccg ccaccgccac cgcaacagct agtgaggaga 60
tcgtaaccat ggcggattcg aaggccgctg cggcggtgac gctccgcaca cgcaagttca 120
tgaccaaccg tcttctgtcc cgcaagcagt tcgtgctcga ggatcatgcac cccggccgcc 180
ccaacgtctt caaggcggag ctcaaggaga ggctggcgaa gatctacgag gtgaaggacc 240
caaactgcat cttcgtgttc acgttcc 267

<210> 51245
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C6

<400> 51245

cccacgcgtg cgtccgcctg cgccttcgcc ccggcaaaaa gcaaaacacg gtcattggaag 60
gctacgaccg cgagttctac cagttcagcg accagttgcy cctgcagacg gacgtcttct 120

ctggcctctc gctcggcgac tccatctggt cccccgtcgg ccggcgcaac atcagcaacg 180
acgttctctt cggcgtctgc gcgtcgtccg ccaactccgc cgccaagagc aacgccgtcg 240
tcgggctcaa gctcaacgac tgatggcccc gcctcatcgg ctccgggaag ct 292

<210> 51246
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-017-Q1-K1-C7

<400> 51246

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ggtgccta at tggcaaaggt ggttcaatca ttactgagat acggagaaca tccagagcaa 120
atgtacgtat tctttcaaaa gaaaatgttc caaaggtagc agcagaagat gatgagatgg 180
ttcagatcac tggaggcctt gatgttgcaa gaaatgctct tgtgcaaata gctacaaggc 240
tgaaagccaa tttctttgaa agagagggct ctgtatctgc atttncacct ggtatccctt 300
accatgcttt gcctgcttgt gtttcggatg gaccaaata tctaagcaga gacaccaagc 360
cttgtgggca ctatctatat tcaagtgggt ntcgtacatc ggatgacacg 410

<210> 51247
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C8

<400> 51247

cgacaggaac cgagacatcg ctgatgcact gaaaattctt ccagcgaact ctttatgctg 60
taagaaagtt gagaggcgat catgcatttc cttggaggag ttcatatgta attacttttt 120
gcgcgacacc cccgtcataa ttagtggcac catcgaccat tggcctgcaa ggacaaaatg 180
gaaggacatt gagtacctca agaagattgc tggagatcgt actgttcctg ttgaagttgg 240
aaagaattac gtgtgtagtg agtggaagca ggagcttatc acattttctc agttcctgga 300
tagaat 306

<210> 51248
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C9

<400> 51248

ttgacatatg tgaaattgat cagctgggta ttgatatctg caaggaattc ttcccacggt 60
tgtctgttgg atttgaagat cctcgtgttc aacttcatgt tggtgacgct gtggagttct 120
tgagaaatgc tcttgaaggg acatatgatg ctatcattgt tgattcatct gacccaatag 180
ggcctgctca ggaacttgtg gagaagcctt tttttgagac catcgctaga gctttgaggc 240
ctgggtggtg tctttgtaat caagctgaga gtatgtggtt gcatacacat ttgattcagg 300
acatgctttc aatttgccgt gagactttca agggttctgt ccgctatgca tgggctagtg 360
tcccaacata cccgagtggg gtgattgggt ttctgttatg cgc 403

<210> 51249
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D1

<400> 51249

gcagcgcata cacaacgact tcacgactg accccaaggc gtacggcttc cagaccggca 60
ccgacgcgtg ctgcccag ggccgcttca acggcatggg gctctgcacc atgggtgtcca 120
agctctgcgc cgaccgcgac acctacgtgt tctgggacgc cttccacccc acggagcgcg 180
ccaaccgact catcgtgcag cagttcatgt ccggctccac cgactacatc acgcccata 240
accttagcac cgtactcgcc gtcgaccatc agaagcagca gctgcgtac 289

<210> 51250
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D12

<400> 51250

gtgcttccga gaataaattt tttccatcgg aatgtctgaa actatgttgg gtgtatccta 60
 gtggttgggt gagcattaat ggctcatatt ttgtcaggtc tatgtgtcgc cgtgaaactt 120
 ttaatcaaat cagttcactc ttttgccaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aacaaa 216

<210> 51251
 <211> 341
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-D3

<400> 51251

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 atggctgggt atagacctga aatgggtaat gtaaataatt tccatatgca ccctcgccag 120
 cccaactatg gagaatttgg attgatgatg ccaggcccat caggtccaga ggtgaggggc 180
 aatcatccag aggcgttcga aaggttgatc cagatggaga tgtcagccag atcgaagcaa 240
 cagcaggtgc accaccctgc aatggccgct ggccgtgtgc ctagtgggat gtacgggcac 300
 gagcttgatg cgaaatngag atacagatga tggatgcctg g 341

<210> 51252
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D4

<400> 51252

cccgcgagag gctgccgtgt agggaccgta gactcagcga ctgcgaagga gggataaggg 60
 gatggccggg atcggaccga tcaggcagga ctgggagccg gtcgttgtgc ggaagaaggc 120
 acccaccgcc gccgccaaga aggatgagaa ggccgtcaac gccgcgcgcc gcgccggtgc 180
 ggagatcgat accatgaaga agtacaacgc tggtagaac aaggcggcat ccagcggtag 240
 atccctcaac accaagcgcc tcgacgacga caccgaatac ctcgcccatg agcgagttcc 300
 aagtgatctg aagaagaatc tcatg 325

<210> 51253
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-D5

 <400> 51253

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 ccgtcgggtcc atgtgccgcc ggcgggttcat catgacgcct ctaccatacc actaccatac 120
 tcaaccgcga cagcctcagc ctcatatgca gggacaccca tgcccgtacc aacagccgca 180
 tccaag 186

<210> 51254
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-D7

 <400> 51254

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 cacaggcaaa cccccgtcat ggcctcctac aagatactgc gcgccgccgt cgtcgtcgtg 120
 gccgtcgccg tgtgtttctt cgacggctcc gacctagccg cctaggctcc tgcgccgagc 180
 ccggcctccg gcgcccgggc cgtctctctg tcgtctttgg ccgccgccct ctgcccggcc 240
 gtcgcgtccc tctcggcaa cctgcgccac tgatgacgcc tgctgcctg tncgacgaga 300
 gccgncgtgt gctgtcgcgt gatgttattg gcctctgtat gtgtgtgtgt gtgttcctga 360
 cctgtgcgtg ccttgtaccg ncaccccgcg cgtggatggg aactttatcg atcgttcgga 420
 gattc 425

<210> 51255
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-D8

 <400> 51255

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ccagcatctg accgatcagg caggactggg aacccttatg ttcgcgctag aaggcaccca 120
ccagaccagc ctacaatgct gacaaagcct tcaacagctc gcgacgagcc tgtgcactaa 180
tcgataccat gaagaaactc aacactgtta cgaccaaagc tgcattcagc ggtacattcc 240
tcaacacca 249

<210> 51256
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D9

<400> 51256

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ggggaagccg aaccaccgcg tatcaaactat aggaaagcac gtgatgattt ccttgcaatg 120
ttggaataac gcatggagct tacatcatca acaagatgga ccaaagcaat acttatgttt 180
gaagatgatg aaagattcac agcacttgaa cgtccaaggg agcgtcaaca tttattttgag 240
aactatcttg tggaactgca taagaaggaa aaagccaatg ctgctgatga acacaacaga 300
tatgttacag aatacagagc ttttctagaa tcatgtgact tcatcaaagc aagtactcac 360
tgagaaaaag ttcacgaacg tctggatgac gatgaacgtt attcccgact tgaga 415

<210> 51257
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-017-Q1-K1-C12

<400> 51257

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cattcatacc aggagagggc acatagaact tgcccaggtt gtaagctgtg tgggtcaaaat 120
tacaattacc ccaatggtga ggaattttct gcaatcagcg gttgtcagga ggcatactac 180
cagacagacc atgatctgat tccttcaact tctcaagtag catctcattg cgagggttct 240
tgctgcaagg gccagcagtt gaaaccgaaa agttattctg tgatgcgtga ttatgactat 300

atcaatcaag agtcaacacc tagttcaagt gaccatgcc aacaagatc taatcttcca 360
 gcgccgcctc atcattggca tgttaaacad tctaagagc atcggangca tgttactgat 420
 gcacat 426

<210> 51258
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-017-Q1-K1-E1
 <400> 51258

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 tgttgagcct gagatccttg ttgatggccc tcatgacatt gatcgctgcg cttacgtcac 120
 tgagacagtc cttgctgctt gctacaagga tctcaacgag caccatgtcc tcttgaggag 180
 taccctcctg aagcccaaca tgggtgactcc tggctccgac tctaagaagg tgacacctga 240
 ggtgatcgcc cagtacaccg tccgtac 267

<210> 51259
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-017-Q1-K1-A7
 <400> 51259

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 tcatttgact gtgtcaatta gagatgcaaa gtgaagcaac aagttgaacc tgcaaattac 120
 tagatgcaaa aaaggcactc ctggatacct tgtttggtgt tcatgcagtc ctgctaatat 180
 gaacaactcc atcttcttgt gaatcttaag tatatttgga aaatgtggaa aacacgaaaa 240
 cctgaaccag cacaagaatg cttacaactt ctcaaggatc acctgaacct ttggactatc 300
 agaacttcat cgaacctgaa tcaacattcc ccggtcatca ccttgaatta gtggcgtaac 360
 cattcttatg atgcaagcac atagcttgct tatttgttcc ttaaatacatc ac 412

<210> 51260
 <211> 312

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-A8

 <400> 51260

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 tgttactgca gaggatgtcc agaagagcag gatcttctat atcctatggt ccccatcctc 120
 cgccaagggtg aagagcaaga tgctttatgc aagctcaaac cagaaattca agagtggcct 180
 caatggcatt caggttgaac tccaggccac agatgcgagt gaaatcagcc tcgatgagat 240
 caaggatcgg gcacgctagg cgcaccgnca tcgcgagttt catggtcacg catcatggac 300
 tcgcctacta ct 312

<210> 51261
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-A9

 <400> 51261

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 cttcacatta ttggagccag aggagcgggc ggcggcttgc actccatccc atcgcttggg 120
 tgcgtcgcgc cgaatccaat cgcttggtca agtctgttgc tgccggaggt agacggacgc 180
 cttatcgtgc tcgtggccgc agctagcgcg ccggagccac agctggagcg ctgcgccgcg 240
 acgagtcgcc gccccgcaag gagcctacgc aggcacgcac cgnacgtct aggcgccagg 300
 cggagacggt attaccacaa cattaaagga gatgccttca ctccagaaag cattgcctnc 360
 agaactngct gataatgtgc tcaggttata tcgtgaatgc 400

<210> 51262
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-B10

 <400> 51262

<210> 51265
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-B2

 <400> 51265

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 taccgagagg atgtccataa gagcaggatc ttctatatcc tatgggtcccc atcctccgcc 120
 aaggtgaaga gcacgatgct ctatgcaagc tcatgcgaac acacctgaca gtgccctcaa 180
 tggcattcac gttgaacttc cggccacaga tgcgaggga atcagcctag atgccatcac 240
 cgatcgggca cgctaagcgc agcgcgaatcg ggagggccat gggtagcat catggactcg 300
 gctacta 307

<210> 51266
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-B3

 <400> 51266

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 gcttttatcc aaggattggg ctgggcagcc atagaagagc taaaatgggg ggatgataac 120
 cataagtgga ttcgacctgg acacctcttc acctgcggtc ctggttctta caaaataccc 180
 tctgtaaagt atatacctct gaatttcaag gtttctctat taaagggtgt tccaaatcca 240
 aaggctattc attcttccaa agccgtggga gagccacat ttttc 285

<210> 51267
 <211> 169
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-B4

 <400> 51267

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 ttccactgga attcgtcaga tccttggact aacgtgacac cttgtcatgc tagcgagagc 120

actggtggag gtggaacact gcatattcgg cgcattgagtg atttgatct 169

<210> 51268
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B5

<400> 51268

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cagtacagag agagagagag agagagagag agagagagag cccttgctcg ttcgttcacc 120
accacagctt cgatcgatcc gcaaggcacg caagatgtac aacgcgccgt ctgcccata 180
gatgtcctac ttggagcacg tgcataaggct ccactattag aagggctgcc tatacgctg 240
catcttcact gctctgtgct gcttctactg ctaccagacc tgctagtgt 290

<210> 51269
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B6

<400> 51269

gcgagaggaa gacaagcgca cgcccacaga gcggggaggc acaacgcacc gaagcaaaag 60
agcgctgcaa gaacaccaga gcagaacaaa caggcatgca aggaagcgga caccaaaagg 120
ca 122

<210> 51270
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B7

<400> 51270

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caccgagcct ggactaccgc cgccgccctt cgccgatatc ttcagcggct aacagcgc 120
accagatccc gccctgcca tggagtccgt ggtgaaccgc aaggcatacc cgctggctga 180

tgcgagctg acgatgggta tctcgatat cattcagcag gcctgcaact acaaacagct 240
caagacggga gcgaatgaac cgacgtaaac cctgaatagg ggcata 286

<210> 51271
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B8

<400> 51271

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acatgggtcc tgaagggcag tatatcacat tgcaggttct agtgaatatt ttggagcata 120
ctgaatgcc a tgctgattat aacttgaçac ctcggaac tattgagcca gtgataacct 180
tactgaattc atctacacca gctgtacatg aattagctgc acaactacta tcacatcttc 240
t 241

<210> 51272
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-017-Q1-K1-B9

<400> 51272

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atctcccatc tccgatccaa tgccccctac cggcgacgac ccgtcggccg ccgccggcat 120
ctcattcccc gatgcggtg gcggtggcga ttctgaagac ggcgacttcg ccggctccca 180
cctcctcgac cccaccgatc cgggccttc caacccacc acctcctccg ctaccggcct 240
gccccacgcg atccctgcgg ccggtagcgg cggcggccc gtcacctccg gcaacggcgg 300
ggagcggcgg cccctgttcc agcgcctctg gaccgaggag gacgagatcg tgatcctccg 360
cggcttcgcg gagttaccg ncgcgcgcgg caccggcttc gcg 403

<210> 51273
<211> 314
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C1

<400> 51273

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ccgctcttct gggggatcac cggcgacggc tgcgtgcct tctccgacga catcgacatg 120

ctcaaaggct catgcgga gtcgctcgcg ccgttcccg c aaggctgctt ctactccaac 180

gccctcggag ggctcaagtg ctacgagaac cccaagcaca aggtcaccgc tgttcccgac 240

gacgaagaag agatctgcgg tgccactttc aagggtgtgg aaggctctac tgcctgacg 300

gcgctgcact gatc 314

<210> 51274

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-C11

<400> 51274

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cccacgcgtc cgctgatttg ttaccccc gaaatttgcc gtctcctcgt ctgcctctc 120

tccctgcgca gccccagat ccggcaccgc ccgctcctcg atccccgcac cccacgcccg 180

caggccggga ccggcggggg cgcgcgccgg gtaggaggag gagaagagga aggggtggtat 240

ggcggcgccg ccggcgaggg ccagggccga ctacgactac cttatcaagc tgctcctcat 300

tggagacagc ggtgttggca agagttgcct cctgttgcgg ttctctgatg gttccttcac 360

tacaagctnt attaccacaa ttggtattga ctttaagata cgaacgatag aattggatgg 420

caagc 425

<210> 51275

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H10

<400> 51275

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caagaggagg agactagact ggcaattcct ggctatgtga ctccattgaa agctggagag 120
gttatggaat caaccgaagg aatgatgaac aatgaactgt tggcgttagc tctgcagat 180
ggaagcatgt atagggagga ggatggattt ctgccacagt ggtttagtga aacaatgtct 240
ggccccctgc tgagctcagg aatgtgcact gaagttttcc agttcgatgt gtcccatca 300
tcagctcatc caaatggcat cattcctgtc tattccaatg ccatgtcaaa ctgctcacag 360
aacttcactc aagatcttca tctgctcgt gttag 395

<210> 51276

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H11

<400> 51276

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cagtgcgact attggcagtt gagggttgtg ctgctcttgg gaagttgttg gagccccaag 120
attgtgcagc acatattctc ccagttattg taaatttctc tcaggataaa tcttggcgtg 180
tgcgctatat ggtggcaaat caactgtatg aactatgtga agctgttggt actgaaccca 240
caaggggtga tctggtgtca gcgtatgttc gccttctctg tgacaatgag gctgaagtgc 300
ggattgcagc tgctggaaaa gttacaaaat tctgcaaaat attaaaccca caaattgcaa 360
ttgaacatat tcttccgtgt atcaaggaat tatcatcaga ttcatctcag catgttcgtt 420
cagctttggc atc 433

<210> 51277

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H12

<400> 51277

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gatggcgact gtaggcagtg gagggtcgtg ctgcatttgc gaactgggta aaacgcccag 120

<210> 51282
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H6

 <400> 51282

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 cttcgccact ctgcgcgtcg cgcgctcggc agggcagcgg ttgctccttg ccttcaaggc 120
 cggcccccttg gcggttcttt tcttcgcgg cgcccggtt cctttgcaag gcgtgttcct 180
 aatcgggggg cctcgcgggtg tcgccctcta atagccgcgc gcgttgcgac atataacca 240
 gcgcaaacc cagggacgca gatctagagt ctaaactcac acacaggggtg cactgagaca 300
 tac 303

<210> 51283
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H7

 <400> 51283

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 gcttcgccac tctcgcgcgc gcgcgctcgg cagggcagcg gttgctcctt gcctgcaagg 120
 ccgaccgctc gccgctcctc tccctccgcg gcgcccgcct ccttcgcag ggcgtctcct 180
 tatctggggg cctcgcggcg tcgccctctc atagccgcgc gcgcttcgcc acatcagcca 240
 gcgccgaacc caaggaagca gaacttcagt ctaaaatcac aaacacgggtg tactttgaca 300
 taagcattgg gaaccctgtg ggcaagaatg ttgggaggat cgtcatcggc ttgtacgggtg 360
 atgatgttcc acagacaaca gagaacttcc gtgctctttg cactggagag aaagggtttg 420
 gata 424

<210> 51284
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H9

<400> 51284

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 gcggttgaat ccttctgtctt cgcccccttc ttccgcccc atggtggcat tctcttcaaa 120
 tggctctaag ccagcgagag acgcaggata aaggccgtag ttttgcaagg cgagtagagc 180
 agtatgtcag taatacagca tctatggcat gtgcttttgc tcgtccagtt catgagcccc 240
 gttgtgtatt tggtttccgc tttcttggtt ggagttttta gttccaaggt ccgatcatgt 300
 tttgatccca taaattctct tccagccttc gagcaactga gtccatcttc ctaagtcac 360
 agccccagcg agacattgaa gcatggggaa acttaaacag tatggtgatg attaattctca 420
 gcattttttg tcttgca 437

<210> 51285

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A1

<400> 51285

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 ctatttgagt tcaggaaca actcattttt cttcaggaga ggcaggtgca cacatctact 120
 tttttttt aaatgaaaca tatgacctta aatttgaagg attatctact atctagttaa 180
 acataaactc tcatgaatgt aaatgaaaag ggataacctc acatttgtca cacacacata 240
 cgtaggcata aaatattgct aaacttagaa gacatatgga tgattgaatt cattacttta 300
 ttttttacia gaca 314

<210> 51286

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A10

<400> 51286

cgagcacatt caatagacat actgtctgaa gtgctcactg ctctgcaaga attaaatggt 60
 tactgcaaaa agataggtca ctataacatg aagtgcataat ggagtcctgg ctttctctgct 120

agattatgc

369

<210> 51289
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A2

<400> 51289

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cctctgcaac tacggccccg cctcctcac cggcggcggc accactctcg ccgcgctcgc 120
tgtcctgctc ctcttccact ttctgcttgc tatgctttta tggagttatt tttctgtggt 180
gctcactgac cctggttctg ttccacaaa ttggaatctt gattttgatg cgcagagggg 240
agaaactgct cctctcacta gctcagagtt cagtagcccg atg 283

<210> 51290
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G9

<400> 51290

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ggagagcctc tcacggtctt cgagcttcac gacgacggc acattgacct tactgtcatt 120
ggccacacc ttgaggcagg ccagcgcccc cagtataccg tgccaccgaa cgtgtgggtt 180
gggtcgttcc ccacactaga cgtcgagtcg ttgcgcatctg atggcagcgt tcttgtcaag 240
tctcggaaga gggaccctga gctgcattac tcccttggtg gctgcacctg tgcccctggc 300
ttccagtacg aggattttga aatggccaaa tttgaggacg tgagatccat cgctcccaag 360
gctgaacctt tctcaagtt tcttattccc tctaccgatt aac 403

<210> 51291
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F4

<400> 51291

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ccatggcaga ggaagctctg gcgatgatat cacaatcatt taggcaggtc gttcttgatg 180

tgaaagttgg acccccttca tttgagaaag gtttagctga cgatatTTTg tctcttctca 240

ggagaacaaa ttgcaagaat tgtcttgtct gggcaaaaag tgatgatata ggaagagaga 300

taattaaatt gtctaaagat gttattgttg gctatgttgt catggtggat aaatttacca 360

atagaagaac ggagttagtg aggattgaag gggctaaagt tgctggcata tatcatcctt 420

tgatccatg 429

<210> 51292

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F5

<400> 51292

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cctcgccgat cgatacgatg gccgtcttct ccgacctcca caccgccgac ggcctcaagt 120

ccctcgaggc tcacctcgcc ggcaaaacct atgtgtctgg tgactccatt actaaggatg 180

acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagtttcct aatgccgtcc 240

gctggtacga gaccgtctct ggggctgtag cctcaagatt ccctggtaag gctggttggtg 300

taaatctgcc tgcgggatca gctcctgcgg cagctgctcc tgcggatgag gctgaggacg 360

atgatgacct tgatcttttt ggtgatgaaa ctgaggagga caagaaggca gctgatgag 419

<210> 51293

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-Q16-Q1-K1-F6

<400> 51293

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 ctcgtctgtc caccgctgac cgctcgtttg tcagcctagc accgggggtgc atgaacgccc 120
 agtatatgct acagcacgcg cgcacctggc cctgccgcct gcgcccgtcg ttgccctgtg 180
 cactccgcgg gctcgggaa tggccaacca ggacatttat cggtttgccc accctctcct 240
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 attgtttatt ggcttctggc ttttaattaat tactgtattt gcatgttcag gtatgttgct 360
 catccatctc gtatgatgaa gtgttttatg ctctnttcca attattgttg caagtagcat 420
 aattagaaca tg 432

<210> 51294

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F7

<400> 51294

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 cagtggcgac gttcctgcag gtgtaccgga agaagtcgac gggcgggttc agctcggtgc 120
 cgtacgtggt ggcgtcttc agctcggtgc tgtggatctt ctacgcgctg gtgaagacca 180
 acttgaggcc gctgctgacc atcaacgcct tcagctgcag cgtggaggcg gcctacatag 240
 tcctctacct ggcgtacgcg ccgtgtcggg cgcgcctgct gactctggcc tacttgttcc 300
 tgctggacgt ggcggccttc gcgctcgctg tcggcgtcac gctcttcgcc gttcgcgagc 360
 cccaccgcgt caagttcttc ggcagcgtct 390

<210> 51295

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G1

<400> 51295

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 ggaaggaatc tttgaggtca aggccacagc tggtcacacc catcttggtg gtgaggactt 120

tccaaaagggtg tttcaaattcc atgggtgggtgt gcgaattgat tgcagtaaaag gcgatgggta 240
 agctgatacc agtgggttga gaattagacc atcagtagct tactctttcc catattttaa 300
 ctataatcta cactacaaaa tagtgcaaaa ggtgttcata gtgacctatg aataatataa 360
 tctacactac aaatatagtc caaaatgtgt ttgtagtac catatatggg tgaacattg 419

<210> 51298
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G12

<400> 51298

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggagaacg 120
 aaaagaagga accgaagcta tagtgcaaat gaatgcaaat taatagagcg ggaaaaagag 180
 aaataaaaaat aaaggaaaaa aggcagacgt ggcaaaacta aaaggatggg gaaaaccatg 240
 cgggtaccaa aataaaggga aataggagaa aaggcccata tggatagtag gcgaaa 296

<210> 51299
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G2

<400> 51299

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 tctcaatcag tggccaacac aacgggtggtg gccatggcgt caggtctgga gggaaggatt 180
 gcatgacaga caggcggaat acagcatctt cagggaacaa tgcagatata gctgctcctg 240
 tggacgcggt cttccaaatt actgtcaccg atccggtttc gagctcacca tgatctttaa 300
 ccta 304

<210> 51300
 <211> 157
 <212> DNA

agctctcagg ttcattgcaga gcttgcagat ctcatgtgatt cccttccaaa aagggttatta 300
 gttcttggtta cacattatca tcaggatcac attgagggtc tttcagtcgt tcagagatgc 360
 aatcctaata ctgttcttct gacacaccaa agtacaatgg atcgcatggg gaaaggaact 420
 tggcagattg actacacttc 440

<210> 51303

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G7

<400> 51303

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 ctggtcttca agtatttcaa agcgccaaaa gaataccaga atcgaatact ttcttatggt 180
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 aaatttgagg cggtgaactt gctgctggct gtgatcctgt tattcacttc ttacaagcta 300
 tttgctgaac aagaacacga atctgatcta tccgataact tcattgcgaa aacatgccaa 360
 aagttcattc cagtcactga atattatgac gacgatcggg tttcacagat caggaccggt 420
 tatggaaagc 430

<210> 51304

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G8

<400> 51304

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 aagattgtgg acttcatcaa gtttgatgtt ggcaacgtcg tcatggtgac tggcggaagg 120
 aacactggcc gcgtgggtgt tatcaagaac aggggtgaagc acaagggcag ctttgagacc 180
 attcacgtgg aggactccct gggccaccag ttcgccaccc gtatgggcaa cgtgttcacc 240
 atcggcaagg gtaataagcc gtgcgtgagc ctgcccaagg gcaaggggaat caagctgagc 300

atcatagaag agcaaaggaa gcgggatgcc gatgcccattg ctgctgcca cgcattcaatc 360
ctctgaatgt gctgagttga gagttttttc tagttgcttt gcatggttat agaacaatgt 420
tctaagacta ccatgtcttt aag 443

<210> 51305
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-016-Q1-K1-F3
<400> 51305

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agaccatccg ccacatgacg gaggatgact gcgccgacaa cggatatccct cttcctaacy 180
tcaactccaa gatcctatcc aaggtaatcg agtactgcaa caagcacgta catgccgncg 240
ncgncggcgn cgccgtctcg aaggccggtt ccgacgacgt gggtgccgcc tccgccaaca 300
gcaccgacgc ctccggtgag gacctcaaga actgggatgc ggacttcgtc aaggtcgacc 360
aggccacgct ttctgacctc atcttggtcg caaactatct gaacatcaag ggtctgctcg 420
acctgacctg tcagactggt gctgaca 447

<210> 51306
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-016-Q1-K1-E10
<400> 51306

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taataatagg tgaagacttg caactctctg tacggtcgca atcacatcta tgcagctatg 180
gttctgaaag tgatcaagag attgccaaat ccatgctttc tgactgcatg acagatgtcg 240
agattaacga tcatcgagtg cttgatgata ttgcctctgc actgtctaata ttcattcgaga 300
tgggtcaagga tgtaatagtc aacgatctga ctgagttggt cagccctgaa gagatgcctc 360

tgtttggctc gaattcagca cttgactggg ccaacttcaa tgcacaagca tattctgatg 420
aat 423

<210> 51307
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E11

<400> 51307

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gaggtgctcg ctgtcgtga tcaaccgcgc gccgtcgcag gcagcacagc aaccagcaac 120
agccaacagc taggcaggta gtagtagtat acatgagcag gttcgcgggg cagacgtcca 180
ccaggccgtg ggtggggatg gcgggctctg gcgccaccgc gtccgagcct gccgccgccg 240
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acgccagcgc catctacttc ggcttcgcgg ccacggcggt cctcgtctgc atgttcctcc 360
tcatgggcat cttagagcac ctcacaaagc cc 392

<210> 51308
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E2

<400> 51308

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ggtgcatgat gaaactccga ctacgatgac agcttcctga gggccctggc atgccggcaa 180
gctgtacagc ttaaacaggt cgatcgtgac gacacgtacc tgggtactgaa tcaggggtgc 240
catctgtccg aagtacaacg tactcgacac acagggactg atcaagacca ctgtcagaag 300
aatcatcgag tggctcaaat gcaaggttta cgacgacctc tactgtggac tatcaactga 360
tctgattaac gcgagactac tgaat 385

<210> 51309
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-E3

 <400> 51309

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 ctctctctcg tagccgcgctc cacctcgcag cagcaagcaa gcgcgaccaa atggcgcctc 120
 taggagacgg cggagctgct gccgcggcgg cgtccaacaa cctggtggtg tcgttcggcg 180
 agatgctgat cgacttcgct cccgacgtgg ccgggctgtc gctggccgag tcgggcggct 240
 tcgtcaagge acccggcggc gcgcccgcga acgtcgctg cgccatcgcc aagctcggcg 300
 gatcctccgc ctctgtaggc aagttcggcg acgacgagtt cgggcacatg ctggtgaaca 360
 tcctgaagca gaacaacgtg aacgcggagg ggtgcctgtt cgacaagcac gcgcggacgg 420
 cgctggcctt cgtgacgctc aagcac 446

<210> 51310
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-E4

 <400> 51310

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 ctctaggaga cggcggagct gctgccgcgg cggcgtccaa caacctggtg gtgtcattcg 180
 gcgagatgct gatcgacttc gtccccaacg tggacaggct gtcgctggcc gagtcgggcg 240
 gcttgggtcaa ggcaccggtt tgcgcagcct gccaacgtag cctgcagcat cgccaagctc 300
 ggcggatcca tacgcttcgc aggcaagttc ggcgacgaca agttcgggca catgct 356

<210> 51311
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-E5

<400> 51311

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aaagatggag agctggcttc ttacatgtca cgcttggcct cattggaatc tattcggaat 180
tcactagcag aggagttggt aaaactgaca gaacaatgtg aaaagttacg gactgaagcc 240
actgctgtgc ctggcttaag ggctgaattg gaagctctga aacaaaggca ctttcaagct 300
ctagaactca tgggggaacg tgatgaagag ttggaggagc taagaaatga tattgttgac 360
ttaaaagaga tgtacagaga gcatgtggat cttcttgta gccagctcca gtcattgngt 420
gctcgtgtat agcgtgcct gc 442

<210> 51312

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E6

<400> 51312

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ccaaaaatat taaggcttca gatccactct aagagggctg caggcttggg ccagttgtta 120
gtgaatgaca agctgagaag attcatatgt tgatatcgaa tgccaaaagc catgggtgcta 180
ctattctgac tggaggtggt agacctgcac atctagttaa gggggtctct atcgagacca 240
actatgatta ctgatcac c 261

<210> 51313

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E7

<400> 51313

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aagaagagga tcaaagagat cgtcgaagga caggcagcgg tgcaccactg cagtgccagc 120

gtggacttca tggaggacac gatgaagccg taccggccg tgggtcaacga cgaagggatg 180
 tacgctcacg ccaaggaggt ggccgagggc ctcttgggg agaagaacgt caggggtgggt 240
 cccaggtga tgggcgcgga ggacttcggg ttctacgcgc agaggatggc gggcgcccttc 300
 ttcaccatcg gggtcggcaa cgcgagcacc atggcgacca tccattccac ccactcgct 360
 cacttcgctg tcgacgagga cgtgcttccc gtcggagctg cgttccatgc tgctgtggcg 420
 attgaaatgt caggaagaac c 441

<210> 51314

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E8

<400> 51314

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 cgtcttcgcc atcgtacaga tcggctcgca tcaattcaag gtgagcaatg gcgactcaat 180
 cttcacggag aggttgaagt tctgtgatgt gaacgacaag ttgttcttga accgagttct 240
 catgcttggg tcacaaactc aaacagttat tgggaggcca atactacctg atgctgctgt 300
 tcatgctgtt gtggaagagc atgccttaga tgcaaaagtg atcatattca agaagaaacg 360
 gagaaaaaat taccgacgga caaagggcca tcgtcaggag ttgacaaaac tgagaataat 420
 caacattgaa agaatagat 439

<210> 51315

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E9

<400> 51315

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 tcgacggcgg ggtacctggc gcggcgggcg gcgcagaagg agcgggtgcg cctgctctac 120
 cgcagggcgc tcaaggacac gctcaactgg gccgtccacc gccacctctt ctaccaggac 180

gcgtcggatc tccgggacaa gtctcgaggcc aaccgacacg tggataacct ggacgtgggc 240
gatagggtca ttgacgatgc ggagggtcag tacaggaact tccagcaccc cgatccctac 300
attgttccat gggcaccagg cggcactaaa ttcacaagaa acccccctcc acctcaaggg 360
atcgagatca tctacaatta tggcaaggag gaccagtaaa caagagtcct gcaag 415

<210> 51316
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F1

<400> 51316

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aaagcgatgt gcagcgtggg cgaactgata tgagatctac tgggaagcag atacaatctc 120
ttataggttc catttacaaa gcagaatcta cctgtgttct tgggcgtacg cggacacagc 180
cccgatccga atcgtcgtcc ttgcgagcct cgccgatccc ccaactcccct cccctcgttt 240
caagatgcag atctttgtga agaccctcac cggcaagact atcaccctcg aggtggagtc 300
ttctgacacc attgacaatg tcaaggctaa gatccaggac aaggagggca tccctcctga 360
ccagcagcgg cttatcttcg ccggcaagca gcttgaggac ggacgcacac ttgctgacta 420
caacatccag aaggagtc 438

<210> 51317
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F2

<400> 51317

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gcgacggcaa caacctgaac tctctcgcca tctcagagt ctcgagagcg gttcctccgc 120
agtcgaaatg gagegtgaca gtggcctctg ctcgtctctg tctgtagtag cataccaata 180
atactactcg cgaactctct ttctgagcaa acagattcca t 221

<210> 51318

<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C5

<400> 51318

cccacgcggtc cgcccacgcg tccgcccacg cgtccgcccga cgcgtccgaa g 51

<210> 51319
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C7

<400> 51319

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cccgacccgc ggcgctggag cgcgacctgg gcagggtgga cggcgacaac gcggtgctgc 120
gcgcccgcga cgcgagctg gccggccgcc tgcagtcgct gggcggcgctc ctcgaggtgc 180
tccagatggc cggcgccgcc gtcgacatcc cggagatggt caccgacgac cccatgctcc 240
gcccctggca gccgtccttc cccccgatgc agcccatcgg gttctgagaa tctgagcctc 300
agccggcggg agagagccaa tttctgtcgt cgtgccgctg tctatctcgt attggtatat 360
ctattcataa atcatccttg tcatggtttg ctcttcttgt cagtgttata aatttgcttc 420
ttgttagtgt tataaat 437

<210> 51320
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C8

<400> 51320

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cttcattgat tgtttcaagg atccaggtcc acatggcagt ggaaggtagc ctattgagat 120
gtatcctgaa atagacgaga gtgattttag aaaggggtgcc cagtggtttg cagttacgag 180
gagacatgct ttaatgattc tggctgacag cctgtactac aagaagttca agctatactg 240

caagccagca gaagggcgca actgtattgc agatgagcat tatttgccaa cgctgttcaa 300
 tatggtagat cctgggtggca tctccaattg gtctgttaca catgtggatt ggtccgaggg 360
 aaaatggcat ccaaggtcat atagtgtga cgatgtcact tatgatctct tgaagaatat 420
 tacaacaact gatgagaact tcca 444

<210> 51321

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D1

<400> 51321

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 aggtgggcct cgaacgaaga tggtggcggt gttcagcggg caggtgggtg aggtgccggc 120
 ggagctggtg gcggcgggca gccggacgcc gtcgccaag acgaaggcgt cgcagctggt 180
 ggggcgcttc ctggccgctt ccgagccggc cgtgtccgtg cagctcggcg accacggcca 240
 cctcgcttac tcccacacca accaggcgct cctccgcccc aggtcggttc cgccaagga 300
 cgaggtgttc tgctgttcg agggggtgct ggacaacctg ggctgtctga gccagcagca 360
 cgggctgtca agcaagggcg ccaacgaggt gtcctcgtc atcgaggcct acaagacgct 420
 gcgcgaccgt gcg 433

<210> 51322

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D11

<400> 51322

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 acgtcctac ccaatggcgc cgacgtcgaa gctgtcgatg ggcatcaagc gcgcgtcgcg 120
 gtgcacgcg taccaccgcc gtgggctctg ggcatcaag gccagaacg gcggcgctctt 180
 cccaaggcc gagaagcccg ccgccgccgc ggaaccaag ttctaccccg ccgacgacgt 240
 caagcctcgc gttcccagca cccgcaagcc taatcccacc aagctcaggt cgagcatcac 300

gcctgggacg gtgctgatcc tcctcgcggg gcgcttcacg gggaagagag tgggtgttcct 360
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 ga 422

<210> 51323
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-016-Q1-K1-D2

<400> 51323

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 gagatcttag ggtgatggaa agagacgagc aatcgatgag caaggctctg gaggcacaga 180
 acaagaagct tgtgttcatt tcgaaccagg gcagcgtgac cttgtctgca caagcgttac 240
 atgagcgagg ccttggcgct gaagccgggtg gtagtctgca gacagggtctg aggaatatatt 300
 tcgaagcgat ggagaacttc acctctgcat ctgcaaatac gtacagggag ctccatcttc 360
 gcgccgaaga agagaaagcc cgggttgagc angagagcgg cagcgtttcc tagttccaca 420
 tgaggacatg agcatttgac ggtggaaaga 450

<210> 51324
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D3

<400> 51324

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 agcagcggcg gcaacaccgg tgacgccgac agaggggacg gtgatcgca tccacagcct 180
 ggaggagtgg agcatccaga tcgaggaggc caacagcgcc aagaagctgg tgggtgattga 240
 cttcactgca acatgggtgtt ctacgtgccg cgccatggct cccatttttg ctgatattgc 300
 caagaagtcc ccaaatgttg atttcctgaa agttgatgac gatgaaatga ataccattgc 360

tgagcaattc agcgtagagg ccatgccaac attcctgttc atgagggagg gcgacgtcca 420
tgac 424

<210> 51325
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D4

<400> 51325

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tgttgctacc cctgtttcaa ttaccacatc gaccaccct tctggtgctg caaggagcac 120
acctctgaga cctgtgagga tgtctcctgg ctcccatcag aaatacagca cgccaccaaa 180
aaaggggtgag ggtgaacttc caactccaat gtccttagag caagcagtgg aggcctttga 240
gaacttgggt gtatatcctg agattgagca gtggctagat agtctcaggc agtggttttc 300
ttcagttgtg atgaaccac ttgtacaaa aatcaaaaca agccatactc aggctaagca 360
aacaacagct actggtgggg cttcagttac tgtagccaa gttggaagt atctgccaag 420
cacaacacca ccagttgcct tgt 443

<210> 51326
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D5

<400> 51326

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ttttcgtttg gatcatctaa gatttgccat ggtaagtcag agtcgctggc tactttacaa 120
ccatgcttgg caatgataac tcatggcagc tttaggtgct cttctgcatt gcgttggtgg 180
gtttgccctt cgtggtcttg ttagtttttg ttgtaggagt tggtttgtgg tctggtgcat 240
gaagtcggag ctgctaagcc tcggtgctaa gctcgacaac gatgacttga gccaggcttt 300
agaactgctg acgaggtgag tggagtagag caaaagtgt gtgtgggtcat ctgttgatgt 360
cccaatccaa ccagcccact tttgttgttt ctagttgggt cgagtgttgt gtggcacatg 420

ttgatgttcc aatccaacc

439

<210> 51327

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D6

<400> 51327

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ttttgtagta aggggtgtgct acatcaaate cagcgtgttt aggatactgc tacatacatc 180

aaatcctaaa gcctcctaga atctgtcatt aggaattttt agagatgctg acatacttag 240

atTTTTctct cTTTTtgggg acattcttga tcaaataagt aattattgct tgtgtagtag 300

actagagtgg gctgtattaa cacacactaa acaaaaacgg aaagaaaagg aaagatgtac 360

tcgtggttgt tctgttgtaa aattatgtcc aaactgggtt ttttttgtcg tgaaagctcg 420

tcagctcgtg t 431

<210> 51328

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D7

<400> 51328

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ctccgtcatt cgtttcgctc tctgccgcgc ccaccgcaca agaagctagc tcctgcctgt 120

accgccccgt catggcgatg ctatcccgcg cagcctcttc cgcggccccg cgcccgctgc 180

tgccgcgcgc taggtttctg gcggtgaggg cgatggcgtc gtcgctcttc ggccacgtcg 240

agccggcgcc caaggacccc atcctcggcg tcaccgaggc tttcctcgcc gaccctcgt 300

ccgacaaagt gaacgtcggc gtcgggcgct accgggacga caacggccag cccgtcgtgc 360

tcagctgcgt gcgcgaggcc gagcgccgga tcgcgggcaa cctcaacatg gagtaccttc 420

cgatgggagg cagcgtcaag at 442

<210> 51329
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D8

<400> 51329

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 gtaccgcccc gtcattggcg tgctatcccc cgcagcctcc tccgcggccc ggcgcccgt 180
 gctgccgccc actaggttc tggcgggtgag ggcgatggcg tcgtcgtctt tcggccacgt 240
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 gtccgacaaa gtgaacgtcg gcgtcggcgc ctaccgggac gacaacggcc agcccgtcgt 360
 gctcagctgc gtgcgcgagg ccgagcgccg gatcgcgggc aacctcaaca tggagtacct 420
 ttcgatggga ggcagcgtca agatga 446

<210> 51330
 <211> 311
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C4

<400> 51330

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 agaacaaatc acacaagaac aatctgctga ctgtataat atcttgacca atgactgcca 180
 ggaacatttg gctatgaagc acttcgtctt aataaatcaa ctggacttta aaggttgact 240
 acatgatcct aacatgtgac cctttgatct ctgtgacacc aaaaataagc ttaacaactt 300
 caaactatat g 311

<210> 51331
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A7

<400> 51331

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acaagtactt caagacaatg tccgcccga agctcctgtc agttctgcag ttcgtcacag 180
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cagactccat atacacgatt gtcttctccg ggctgctcga gggccttatg tttttcaagg 300
tcctgccctt cagtgttcat gttgcaaac tttgccctgc tggctgtgag ggatcagtga 360
tggcctttgt catgtctgcg cttgcccttg cgactatcgt cagtg 405

<210> 51332

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-A8

<400> 51332

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tgggcagcca tccgtgctca cagctgctac tgccaacgga gcaagacatg acaaagtgtc 120
aaataatacc agacatggtt atggtggaaa acaacagggg aggaccactg ggacgacata 180
cctttccaga agatgaacca acttttactg ggcgatgatg ctggttgaat tggaaacat 240
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gatggtgaag atgacctgga ttaaagttat tctagattca ttttttattt tgcactattg 360
gtcttcacag agcctgtatg gttgnggcc ttgatttggc aaagctgtac tgatatatcc 420
ctacccaag aatcagaagc ct 442

<210> 51333

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B2

<400> 51333

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ttggaatgtc gacaaatgcg gggattgtgt tgctgtcctc gcgcaccatg aagtcaccaa 120

ctccctaaca atcatcgggt attctattct tcaaactgtc aatattctta tagcgggtca 180

tgtaccctat tctcatcctc catcgatgca tctcagcctc ttatgatata ttgtactgct 240

cactctgctc ttcattggtta tgtgacacca ggctctctac 280

<210> 51334

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B4

<400> 51334

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ggtcgcacta aactgattt tcgtatcca acgatgtgac ccagctccat tttatctggt 120

cgacgagatc gatgtgtctc tggatccaca ataccgaaca gcagttggaa gtatccttat 180

tgtttgttct agtgtctagc tatgcacatg atcaatgcct cttctttgtg tgtcaatagt 240

cctgctgctt tccttaagtt tcattccaga tatgatccgc cgtctagctg acatggctga 300

cactcagttc attgcgacca catttcggcc agagattgct aaagtggctt gatagatata 360

tgccgtgaga cacaagaata ggggtgagcaa catcgacgtg gtgtccaagg aggaggccct 420

ggacttcctc gagcgtgac aga 443

<210> 51335

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B6

<400> 51335

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tgtggtggat gcggcagcgg catgctcctc gaaggctcca aggccaacaa agccatgtcc 120

ggcggctgtg gctctggttg tgggtggtgg tgcggcagcg gcatggtcat cgaatgctcc 180

<223> Clone ID: LIB3079-016-Q1-K1-C3

<400> 51338

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gaggtttctc atgagtgggc attggtcaac aagcagaagc ccatatggat gaggaagcca 120
gaagaaatca caaaagaaga atatgctgcc ttctataaga gcttgacaaa tgactgggag 180
gagcatctgg ctgtgaagca cttctctgtg gagggccaac tggagttcaa ggctgttctc 240
tttgttccta agagggcccc ctttgatctc ttgacacca agaagaagca aaacaacatc 300
aagctctatg tgcgcagggt gttcatcatg gacaactgcg aagagctgat ccctgagtgg 360
ctgagcttcg ttaaggggat tgttgactct gaggaccttc ccctcaatat ctctcgtgag 420
actcttcagc agaa 434

<210> 51339

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-H11

<400> 51339

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tcccgggaat ggagtgcgta ttgggcgtgg ttggccgcga cttcgcgctg gtggcggccg 120
acacctccgc cgtgcagagt attctcgtcc acaagaccga cgaggacaag gtgatgggtgc 180
tcgactcgca aaagctgatg ggcgcttcag gggagcctgg tgatcgggtg caatttacgg 240
agttcataca gaagaacctt cacctgtacc agttccggaa caccatcccg ctctcaaccg 300
ccgccgncgc caacttcaca cgcggcgaac tcgccacagc ccttcgcaag aatccatata 360
tggccaatat tattcttggg gggttatgata aggatgttgg tgctttcctc tactacatcg 420
actacatt 428

<210> 51340

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H12

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 ctgctggagg gtatggacat ggtgggtggcg gacgcctcgg tcttgggtgag ggtgcgggag 300
 ctggtggctc tgggtatggg tccgggcaag gatctggc 338

<210> 51343
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H5

<400> 51343

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 tctgtcagta ctaatgatga gtgttaagaa caacaccag gttctcatca attgccgcaa 120
 caacaagaag ctgcttggcc gggttcgtgc ttttgatcgc cactgtaaca tgggtgctcga 180
 gaacgtgcgg gagatgtgga cagaggtccc caagactggc aagggcaaaa agaaggctct 240
 gcctgtgaac aaggatagat tcacagcaa gatgttcctc acgggcgact cggtcacatc 300
 cgcgctgagg aacccaagt gacagcccaa ccggaagcca tgtctatgtt gaaaactgta 360
 gcttatgatg tatg 374

<210> 51344
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H6

<400> 51344

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 ttgccgggc ggtcacatgt catgcatgga acttacttaa atgtgtctcg atttatttgt 180
 catctccct 189

<210> 51345
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-H8

<400> 51345

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ggactcgacc atcggcgtga cgctgctggg ccccgacggc acgggcatcc ggatccggga 120
cctggcgggg tggggcggcc tcattgggcgc cggccacgac tactacgagc gcggcaacct 180
ggacatcttc agcggccggg gccctgcat gagccaggcg ccctgcgcca tgaacctcac 240
ctccgacggc accggcgcgc accacggctg gtactgcaac tacctcgagg ccacggtcac 300
ggggcccccac ctcggtgctg cgcagcagct cttcaccgtc gagcagtggc tcgccaccga 360
cgcgtcggcc taccgnetgt acgcggtcgt cgacaagtg 399

<210> 51346
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H9

<400> 51346

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gagtgtgcaa ccctggacgt attcctaaaa acaccacagg cgcaggcctg tgccgaggac 120
attgccatat ggatgaagaa atatatatcc ctgagagggc atgagttctc atattagttg 180
tagcaaaaac catgcattgt gaaataggcc ctttgcaggg aagcgtcaat gtgttctttt 240
caactggttg aaagaaggat gttggattgc agtcgggtaa accagctagc ttaatgctga 300
gtactgagtc ctttaggccc tgttcggttt caccggaata gaccaagatt tattccagct 360
catcaaaatc tatataaatt agagaagtaa tccggctagg aatcaatccg aggctcaa 420
ccataac 427

<210> 51347
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A12

<400> 51347

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acgcggacct aatcaccatt gacaaactcg tggtctacaa gaagctgac tccaaattcc 120
tcgaggctct caagtacatc gctttcatcg accttcgtgt ttacgacatt cactcccca 180
ctatcccgtc cgctgaggag atcgtttacc acatctacaa gatgctaacg gtgcttgaca 240
ccaacattct ctggg 255

<210> 51348

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A2

<400> 51348

ccctgttaag caaaccacta gctcttctc acgagagcag tcagatgatg atgacatgga 60
aggcgatgct gagacaaatg gaaatggaaa ccctgttcaa caaagacaac agagaaggaa 120
gcaatccaac cggaatcag ccaggcgctc gagaagcaga aaggcggctc acttgaatga 180
actggaggca caggtagcac aattaagagt cgaaaactct tcgctgctaa ggcggcttgc 240
tgatgttaac cagaagttca atgaagctgc tgttgacaat agggtgctaa aggcagacgt 300
cgaaacctta agagcaaagg tgaagatggc agaggactcg gtgaagcggg taacaggcat 360
gaacgcattg taccctgccg tgtcagatat gtcttgctc agcatgccat tcaatg 416

<210> 51349

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A3

<400> 51349

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aggattcaaa aagcaaaagc tgaggcagca attcagaagt taatgattaa gatggagaag 120
aaaggatcat ctctgctgga taagattttg aacaccctca agtctgctca gagaaaagcc 180
caggtgatgc ttgagcatga gcttgatgca gtaacagcaa accaagatgg aaaaggctct 240

aggaaggcaa aaaagggagc acagcgtagc aagaatggcc aaatcagttc cctgagtggc 300
 tgcttcactt gccatgcttt ttgatacatg taattccaaa actgagaatc aggatctgag 360
 aaattccttc gtactgtcta catcacggtc atgttctcca catcgaaatc taggtgaact 420
 tcagatatct atcagatgtc agtacat 447

<210> 51350
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A4

<400> 51350

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 taccttgcaa cttgataagg aagcagacaa ggaattcatg tccagcttgg cttcccttct 120
 taagactatt gaaagggcga tccagggttca tgaagatttc tcagggtgtcg tgaaccctgc 180
 agagttatta gaatgtcact tcacagggtt gaacgctctg gaaaatgaat atgggtcttg 240
 tgaaattggt aagcagggaa cagaaatagt tcagagagct gtcaccaa atccagtc 300
 cctacatgaa gcatacaaag ggaaacatgt tgggctggta atatccacaa atgacgctcc 360
 atcatcctta ggatccataa ttgacgcacc atcttctactg cacatttcaa g 411

<210> 51351
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A5

<400> 51351

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 tcctataagg aaaaaaccaa gaaaaaaaaac acaaacatac aacaacataa atagggccaa 120
 agggcctcct aaatccaatt taatgtccgc ccccttacia ctttatacct ttaaaaatcc 180
 ctgacttact tcaaattaac tggcttgcac tacacccac ttttaattgga aaaaccctta 240
 cctaacccaa cttagtcgac cgactttcca aac 273

<210> 51352

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-H1

 <400> 51352

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 cgccagcgcc aactaaaccc ggcagcagcg tcgaccatgg cgtcctcgct gctctcctcc 120
 cccgctaaac ccaccatcac caccaccacc aaaacgaccc cggccccaag acccgcccgc 180
 tccgcccatt tccatgtcct ctccgcccgc cgctgcctcc gcctccgctt ccgcgcgctc 240
 tcgcagcatt ctccgccttc gccaccccg cggtcgcgcc ggccggatta cgtcccgaac 300
 cgcacgcagc accccaacta cgtgcgcatt ttgcacacca cgctgcgcga cggggagcag 360
 tcgcggggcg ccaccatgac gagcgcctcag aagctcgtcg t 401

<210> 51353
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-F3

 <400> 51353

 ctgaaaccgc tccacgcctt ccccttctgc gcatagccag ccaagccaac cagccaggca 60
 gaagaggaac cggggagcgg cagctgcagc ggccgagggc ggagcacgcg aggcattgat 120
 agataccaaa gggtagagaa gcctcggaat gacacgcaa tcagccagaa tgagatcaga 180
 atcactactc aggggaggat gaggaactat atcagctatg ggatgtcgct gcttgaggaa 240
 aatggacatg atgagattag tatcaaggcc atgggacggg ccataaataa gacagttatg 300
 gttgttgaat tgatcaagag aagggttga ggtcttcatt agaactctgc tactgaatct 360
 gttgatatca cagacacatg gggaaccttt ggaagaagg ccttttccca ctagagacaa 420
 ctgcctatgt gtcgatgatc 440

<210> 51354
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F4

<400> 51354

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gcgagtgtctc aaaacatgctg tgagctctat agattgggtc tagtcgatac accactggcc 120
ccttacttctc cagagtgcac tacatctgag gatttggatg acatgaatat tgagattatg 180
aggaacactc tctacaaagc atatcttgag gacttctaca aattttgcca gaaactaggt 240
gggtgcaacag ctgatatcat gtgtgatctc ctttcatttg aagctgacag aagaactggt 300
aacattacaa taaatagtat tgggtactgac ttgacaagag atgaccgctt gaagctgtac 360
tccaactt 368

<210> 51355

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F5

<400> 51355

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ccaagggcgg caacgagcag gggggcaccc gcatcttcgg cccctcccag aagttctcct 120
cccgcgacct cgccgcgcac acctccctca agccaagaaa agacggtcaa cagacccaag 180
aggagttaca gaagaggaat ctgaggagg aacttgagga acgtgagcgc aagcactact 240
cttccaagga taagtcctat gccgaagaaa gagaccggcg gaaaagctct agccatctac 300
tcttagaagg ttcaaagaga gagacagagg ataagatagt tccacgagaa atcgatgctg 360
atgactccga tgtggagcct aaaagcgatg acgagagcga tgaagatgat gatgacgacg 420
aactgaagc tctaatag 437

<210> 51356

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F6

<400> 51356

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gctagctagg tggtcctcga acgaagatgt tggcgggtgtt cagcgggcag gtggtggagg 120
tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gccaagacg aaggcgtcgc 180
agctggtggg gcgcttctg gccgcctccg agccggccgt gtccgtgcag ctcggcgacc 240
acggccacct cgctactcc cacaccaacc aggcgctcct ccgccccagg tcgttcgcgg 300
ccaaggacga ggtgttctgc ctgttcgagg ggggtgctga caacctgtgt cgtctgagcc 360
agcagcacgg gctgtcaagc aagggtcca acgaggtg 398

<210> 51357
<211> 414
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-F8
<400> 51357

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cagatggcgg cgatagcggc ggccaccag gcggcggcga cgggtgctact gctcgcgggc 120
ctggtgctgg cggcgggacc gggcggggcg cgggcgcagt cggcgctgcc gtcgagccag 180
tgcacgtcgg cgctggtgag cctgtcgccg tgcctcagct acatctccgg gaacgtgtcg 240
gcggcgccgc cgtcgtgctg cgcgcagctg ggcaagggtg tgcagtcgga cccgcagtgc 300
ctgtgcgtgg cgctcagcgc ggaccggcg tcgctggggc tcaccgtcaa ccgcaccgc 360
gcgctggggc tccccagcgc atgcaaggtc acgacggcg acgtcagcag ctgc 414

<210> 51358
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-015-Q1-K1-F9
<400> 51358

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gtggagactt tgacggatct ttgcctgctt ttctatgcga tgtaagctgc tgaaacctgc 120
actcatcaaa tgttgtgtat gcagatggtg ccatgcattt gtttcctga atggcttcaa 180

atgaaatgaa tgtttttttt aaaaatataa actgaactat gtggaagtac acatatcaca 240
aacacaagag atgctaaagc atttgcactc ttatctgacg aggggtattgc aaaaggagtt 300
aggaggataa cagtcgtgac tgctggatgt gccacccagg ctatggagtt ggcataatct 360
atcgattctg atatcaataa agcatcttag ttggaggagg ctttgtttga aaagaaaatt 420
gc 422

<210> 51359
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G1

<400> 51359
aaaaaaaaa aaaaaaaaaa aaaaaattta aaaataaaaa aaaaaaaaaa aaaaaaaaga 60
aaaaaaaaa ataaaaaaaaa taaaaaaaaa aaaaaaaaaa aataaaataa aataaaaaaaaa 120
aatcacaaaa aaaaattata aataacatac aattaaaaaa aaata 165

<210> 51360
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-G10

<400> 51360
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cggctgtctc gcccctcact ccagccagac ctggccgctc tgctccgctt cgacccaacgc 180
gacgtcttcc tccttgagga cgcgctcacc ggctccgacc cgtccgctgc cgccaaattc 240
ctncacgggc tncctncccc tgcggactcc gncactgccg tccctggaga cttcaccttc 300
cgcgaccgct tctctctcgc cgacccagcc gacgcgctcg ctctgccggg cctnctcgtc 360
ctnccccagn tcgtcgggtgc gatctatctg ggcgagacct tctgcaggta catcagcatc 420
aacaatagc 429

<210> 51361
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G2

<400> 51361

aaatgggagt tctcacaggc gaatattaag aatgtcaatg agattctgtc tcaactatcca 60
agggactaca agcaatctgg tattattccg ctgcttgatc ttgcacagca gcagcatggt 120
ggatgggtgc cagttgcagc aatggatgct attgctaaaa tcgtcgaagt tgcaccaatc 180
atggtttatg aagttgcaac cttttatacc atgtttaaca agactaagggt tggtaaatac 240
caccttctgg tgtgtggaac tacaccttgt atgattcgtg gttcacgtga aatcgaagag 300
acgacgttgg agcaccttgg agttaaacga aatgaggtga ccagtgatgg tttatcttct 360
gttgagaaaa tggaatgcat gggtagctgt gtgaatgctc ctatgattgc tgaggcttac 420
tac 423

<210> 51362
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G3

<400> 51362

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tgagccagct aaaggaaatg attccttggga tttgtggatt accagcaact tcaaggaatc 120
taaaagcaat gatgttggga gaactaatgc ctcatctgat ggatggcagg attttgccag 180
ttttgatcaa gctcagagaa ttactaaagt tcatgtggaa ggacatgttg taaaagatcc 240
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acagataagt gaacataatg atctattcga tgactggcag gatttccaaa actccaatcc 360
acagcataca accttacaag tttcttcaaa tgcttcatta tttgatataa ccttggcatc 420
aaagcctgat gcttttggag agcaagaaat t 451

<210> 51363

<211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G4

 <400> 51363

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 actggcaggc tacaattatg ggtccatctg atagcccata ttctgtagga gctttactag 180
 gcacaatcca tattgctcct gattattctt tcaaaccacc aaatgtggca ttcaacacta 240
 tagcgttcca ttcaaacttt aactgcatcg ggagcatttg ac 282

<210> 51364
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G6

 <400> 51364

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 aagtcagact accaaagcgt tatggctctt cagtcctcta cgtacgggaa ggtgctcgtc 180
 ctcgatggag ttattcaggt gacggagagg gatgagtgtg cgtaccaaga gatgatcact 240
 cacctgcccc tttgtccat caaagacccc aagaagggtg tggttattgg aggggggtgac 300
 ggtggtgttc tgcgtgaggt ttcacggcat tcctctgtgg aacaaattga catctgtgaa 360
 attgacaaga tggtggtaga tgtctccaaa caatttttcc ctcatttaag ctgtggattt 420
 gaagaccctc gtgtgtcatt acaca 445

<210> 51365
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G7

 <400> 51365

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acagtgaagt gcttccgagg gcacgcgtgt cattgggtaa ggtcactcgt tcccgaacct 180
catacaggag ggtctggcaa cgggcctgtg actatttacg gctcatgaat gaaccagcca 240
tctgtttatc tgtactggga cgtccaccg tccaaggaaa tggctcctgg attgtgaatt 300
ggagtgaatg atgaacatag atggttgctc atgttccttt taccttttag cccagcaaaa 360
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<210> 51366

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G8

<400> 51366

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tatggtttgc cagggcagaa gcatgaccc cctgaagaaa gggatccatt gaggatattc 180
tatgaatcac tctatgagca ggtccccacc agtgacatgg ctgcaacctg gttgatggaa 240
tggggtttgc tcccgggtga tgtggctaga aaatgttttg agaagaaaca aggtcagaaa 300
gttaagtcac cagtcaaagc aattgt 326

<210> 51367

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G9

<400> 51367

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gtgtcgggat caaccatctt ggccatcagc aggcatctgt tcagtgggtt gcgaacactg 180
tcgaagagag gctacgtgag aaccagaat acaagcctaa ggaaattttg gaagaaattc 240

acaaggccca tggcatcacc ctatactaca agcaagcttg gagaggtaag gagcggatca 300
 tggctgcggt tgcaggggtct tttaggaag gataccgtct cctgcctgag tactgtaggc 360
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 gcttt 425

<210> 51368
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F2

<400> 51368

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 gttccccag accagcagcg tctgatcttc gccggcaagc agctggagga tggtcgcacc 120
 cttgcagact acaatatcca gaaggagagc accctccacc tgggtgctccg tcttcgcggt 180
 ggttattaag ccatcagtcg ttgaagctgc tgctgtatct gggttatcta gtgtctctgc 240
 cattgcccag ggatgggtgt gtctttcaaa gtatttgtat ggtttgtgtc gtgagtcgtg 300
 actgagctgg ttatcatggac cagttgtgtt ctggttacc aaaactatcg tgcgaccgca 360
 tatggcttaa tcatgaataa atgttgtttg aatttaaac 399

<210> 51369
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D6

<400> 51369

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 gcaagatcct ggcgcaacttc cgctcgcca gctccgacat gaaggagctc gtgctgtccc 120
 tccccaggac ggcgcaagtct gactccggcg aaaccgagac cgagccgtcc gtgaccgcca 180
 aatccccgagc cgagccgtga gtgactagct cccggtcgcg gtctcggtct ctcatgtata 240
 gctgctacat cccttagcta gctgcacaca gagcgaaggct actgtatagc tactacgacg 300
 aagaagtcgc cgataagcaa gtgtgcagtg caggcacgcg tccatcgatc ggctaaagc 360

ggctgcagca gtcggtcggt cggtcggtcg gcgtggatta aatgatcgga catatacgaa 420
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 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51370

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 ggttcttctt caacctgctt tgggtggaagg gggccatttt ggggtgcatga gtgggaaact 180
 catgggacct gtgcttacct tgaaatacag gatgaatatg actacttctc cacagcactg 240
 tatctctaca gcaaatacaa tgttacgaaa gctctgagaa aagcacgtat ccggcctaca 300
 agcggcagaa aatacgccgt tggccatatt gttgccgtca ttgaatatgc gtntgggtgca 360
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<210> 51371
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D8

<400> 51371

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 tctgcaactc caagcccaac atgcaggtct actgctgctg cgtcatcccc tagcatcata 180
 gctcctcgtc aacacaccta aatctgcagc cctgctagag aagatacgat ctctatgcag 240
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 gaatctgtaa tatatataag cggatcatcc 330

<210> 51372
 <211> 361

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-D9
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 tcaatcagca acacccgtca tggattcgaa ctcatccaat cacaggaatg tgccaagatc 180
 tgatgtgaaa aacagcggcg tagtttcaca ctctagagcc tggaagcga aaaccaattc 240
 ccatcctcag gacagctcag acggcaagat tgctgttgac gggcaagttg attctcatgg 300
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<210> 51373
 <211> 55
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-E10
 <400> 51373
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<210> 51374
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-E2
 <400> 51374
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 tgggcggtgc cccttcgaac ataatgccat ccagggccat tgcattgctt gcttcctcaa 120
 cagatctcat ctccacaaaa gcaaatttct tgtcatgatt tatgtatata ttgagaacag 180
 catcacctgg accagcagtg tttcccccaa tagcagccat gacttgatta aagtaaattg 240
 ccactgtctg ttcgttagca gatggaggaa ggccaccgac ataaacacgc cgagcatgac 300
 gagtagcctg ttgagtcatt gcttgtggct ggatgacaag gggattgaac tgcccagcaa 360

cagaccttca	accgctacat	ttccggttact	accggagccg	ccactcccac	gaacgcgggc	60
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cctttctatt	caagtctagc	aatggcggca	ccactgaaaa	aatcccatcc	ccagaagaac	180
agcgagaaaa	aataaatgaa	ttacgcaagg	agcttgggtga	acactcatca	gcagccatta	240
aagacttcct	ttcagatgcc	tcgttagcga	gatttcttcg	agcaaggaac	tggaatgtgc	300
agaaagctag	taaaatgatg	aaagcagctg	tgaagtggct	gcttgcattc	aaacctgaaa	360
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<210>	51378
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<212>	DNA
<213>	Zea mays

<400> 51378

<210>	51379
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<400> 51379

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 cccccaccaa agccgccgcc gccgcctgc gcagcaagcc gtctccgcct cgtccgaggg 300
 cggctgcggt ggctgcgcag aacgggacag ccaagcacgg agacggcgct gcgcgtgtcg 360
 ctcccgctctt cgacgccgat gacgacgacg a 391

<210> 51380
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F10

<400> 51380

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 ttggcttctc gagatggaaa gattgtgttt gagagtacac ttgacgcaag actagaagtt 180
 gttttccgca agaaattgcc agagatccgg aagcttcttt ttggccagac tgcagcctaa 240
 tcgactcatc tgccgatggc acggtgtgtt ctatgtaatg gttgccggct gcacgcctgc 300
 actgcagcca taaggaactc cgctgtttt tgtcaaattg attgtttaag gtattcatcc 360
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 ctgtttgct 429

<210> 51381
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51381

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 cctccttcc cctacatccg cggctgggtc ttcacctccg actcgggcgc tgctatgggt 180
 tctgtagagg aacatctcca acccaaggtg tgcgtgcaga cgagcacctc cgcggggctt 240

gagcagatcc tgccctgggt cttctatcac aaggctcgtcg gcgtcgcgca gttcctgctc 300
 ttcgtggagg gcaaggcggc gaaaccaat gtcgcgggag tcctcgagtc aattcctggg 360
 gtaaaagtgg tgtacagaac taaggatctt gaggagcggc aggcacggag tcgaatctgg 420
 aatgagactn ggctttcagg atttttct 448

<210> 51382
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-F11
 <400> 51382

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 tttagtgcga gctaggccaa ggaagctagg gcttgggtacc gcatatttac atggactaaa 120
 gcatgcctta ggggaatttg tcattatcat ggacgcggac ctatctcacc atctacaata 180
 ctagccaagc ttgattagga accataagga aactggagct gacattgtta ctggcacacg 240
 ttatgacaag aatggtggtg tccatggttg gaatgttatg ctcaagctga ctgcgagaag 300
 tccaaatgtt cttgcacaaa cgttactgca gcctggagct tcagatttaa ccggatcatt 360
 taggctatat aagcgagatg tcctggaaga cttaatctcc tcatgtgtca gcaagggcta 420
 cg 422

<210> 51383
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 51383

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 aaagtttctt gatgaccgtg aatttttgga ggtggagact ccgatgatga acatgattgc 180
 tgggtggagca gctgcaaggc cttttgttac acatcacaat gaattaaaca tgcggctttt 240
 tatgcgcatt gctcctgaat tatacttgaa agaactgggt gttggtggat tggaccgtgt 300

ttatgaaatt ggaaagcaat tcaggaatga aggaattgat ttaacacaca atcctgaatt 360
 cacaacttgt gaatnttata tggcgtatgc agattataat gatttgatgg agcttactga 420
 aaaccatgtg tca 433

<210> 51384
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C11

<400> 51384

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 cctgaggaag aacgccctgg ccgcttcttc gtcgccttca cctttgacgc cacggtcgct 120
 ggcagcatga ctgtttactt ctttgcaaag gaagagctca actgcaatct aacaacagtg 180
 aaagaagacc taattaagcc cattactgtt agcttcaaag agggctcttg tcaaaaattc 240
 aggcaacctt caggaacagg aattgacttt tcagtgtttg aagaatcaga tctattaaag 300
 caaggggaca tggatgtata tccacttgca gttaaagctg aaacaacatt gtctgttgat 360
 caccaccag aaagggatga ccaaaagatg attactacta actcacagat caccaggcc 420
 gtttctgaaa agaaa 435

<210> 51385
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C2

<400> 51385

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 ggaagccatt atccaatccc taaactcagc tcgttttgag caacataata agtatcaagc 180
 ggagcttaga cgcttcgagc atgatctgaa tggtatggct cagttgggtca ctacatacaa 240
 aaaagcttta aaacagaccc gggcttcttt tgatgagtac aggaagaagt tcccttgcaa 300
 tgttctctt tatggtgatg ttgcttggtg cggtggtctt gttcttagtg tgagggagtt 360

ggagaaaagg ctgtgttgag gagcaacatc aaaaatattg ccatggtaaa atgggtattga 420
 ttgaaaagat 430

<210> 51386
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C4

<400> 51386

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 ctactctatc tatcttgctc actactcatc tccatcactt caaactaatt ctactatata 180
 catacttata acttttatatc aacatatatt aaacctttct ttcacatca tgcacatgta 240
 tacatacatt tccgaatttt atatccgttt gacataagct ccttactttg accac 295

<210> 51387
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C5

<400> 51387

aaaaaaaaa aaaaaaaaaa atagaaatta aaaaaaaaaa aaaaaaaaaa ggagaaacgg 60
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 tgcctaattg 130

<210> 51388
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C6

<400> 51388

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ggtgacctgg gtgctgctgt ccacagagct tacttaagaa tggatgaaat gatgcgggggt 120
 caaagaggat ggcgggaact ccaagcactt ggagataaga taaatcagtt cactggcata 180
 atagaaggct tgatttggtc ccctaaagca agtgattcaa atgatagaca tgatgattgg 240
 gctttcgagg agggaccaca ctctgactnt actgggccaa attgtgggag tacagcatgt 300
 gtagcattag tcagaaatag gcaactcggt gtggcaaattg ctggtgactc ccgctgcgtc 360
 atctcaagga atggccaggc atacanattg tcaagagacc ataaaccaga gcttgatgca 420
 taaagagaaa g 431

<210> 51389

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C7

<400> 51389

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 gctgcgtctg gtggtggtga aggggagaaa ttcgtgagat ctgttccgga tcaggcgtgc 180
 gagctcggga atcaggggtt tcacacatag cttcgtcgat ttgaatttga tgtactaatg 240
 gagtctaagg gtggcaaaaa gtctagcagt agtcgttcta tgatgtatga agtccccctt 300
 ggctacagca ttgaggacgt tcgacctgcc ggaggcgtga agaagttcca gtctgctgct 360
 tactccaact gcgcgaagaa gccatcctga tttccctttt gctttctcat tctagtagtt 420
 taggatttct tttctgaca 439

<210> 51390

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C8

<400> 51390

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 gaacttagcg gaaacaatgc catcattgtt atggatgatg cagatatcca gctagctgtg 120

cgatctgtct tgttcgctgc tgttggtaca gcaggacaac gctgcactac atgtcgtagg 180
ctgattcttc atgagaacat atatcaaacc ttccttgatc agcttggtga ggtatacaaaa 240
caagtccgaa ttgggggatcc gttggagaaa ggcaccttac tgggaccact gcacactcct 300
gcttcaaaag agaacttttt gaaaggcatt cagactatca aatctcaggg agggaaaatc 360
ctttttggag gatctgccat tgaatcagaa ggaaactttg tgcaaccaac aattgtggaa 420
attacacctt ctgcaccagt tgtg 444

<210> 51391
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-C9

<400> 51391
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ggccagcgga aggggagagg agggcgagat gacggtggag aagggtggacg cggggctttc 120
cgacttcgac gcccacttcg atcgctctt cgcttccccg gacgcgcct ccgacggcaa 180
ggtgaagctg ctgctcttcc tggccgaccg caagcctggc tcctccctct cctggtgccc 240
cgactgcaac gtggcggagc cggtgatcta cgagcggctg gaggcactgg aaggcaagga 300
cgccgtgctn ctgcgcgcct acgtcgggga caagcccact tggcgcgacc cggcgcaccc 360
gtggaggggtg gacc 374

<210> 51392
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D1

<400> 51392
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aagggtgtcca atagggccac acattggtgt tatgcctgtc ggcggccaat tcgtctccgt 120
gggcaggata tcgcatgccc caactgcaat gatggtttta tccaggaaat tagtgagatg 180
ggtggcatat tgaacactta tgggctaatt gaaccagact ttgaagagcg tcgagctaga 240

cagc

364

<210> 51395
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D3

<400> 51395

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gaaaagggtga aattttaaac tttaaataata ctttaccaa attctaaaac gttctgccgt 120
tatactacat ccaatcttac gtcatacatc catccaatgt catacaccat ttttattgcc 180
acctaattta atttatttaa cctacattta acaactcaa 219

<210> 51396
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D4

<400> 51396

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ttgtcaccgg agatgtgacc aacaacttca aacatgcctt gactggccgc gctttcaacc 180
gctccttcag cgggagcggg gcatcaatgg acatcgctgt ctccagtgtc agagcttacc 240
tgaatgcctt gaacaagatg tgtagctttg ctggtgccgc gaaagccagc ggcgaggtac 300
ctgagagtgc aagcgtccaa agcgcagagt gagcttggcg accatttgtt tctcatgtgg 360
act 363

<210> 51397
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C1

<400> 51397

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 atctggaatc ctggaatttt ccctgggtgg gtaatccatg gggatgacat tttagtcttt 180
 atagggggtt ttgcatccct gggttttgct tacccttctt cgaaagtagg cattagtggc 240
 cagagcgcca ggccatgcca attttctttt ttctgatgca tatgttcttt tatcagtgat 300
 cgggttgacg ctgggcgtgc acttgatctt tcagtgtatt ttggtgattc tggaagcaga 360
 taggtactgc acaaaattgg agctgaaaga gcttggtgctg ctgcaattac tttg 414

<210> 51398
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A4

<400> 51398

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 aatactccaa ttcgatgaga ggctgacact aaagaaactt tccatgaagt tcaatctctt 180
 cattaaattc ctccaaaatt cctatgtaac aagccattac ataggaattg cacgagattt 240
 gtcaaaaccc aatccttatt cccaacgtg ttattcctat attgtttcaa tcctatactg 300
 atgtttggat actacattgt gaat 324

<210> 51399
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A6

<400> 51399

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 caattcgatg agaggctgac acgaaggaaa ctttccatga ggttcaatct cttcagtaaa 180
 ttcttccaaa attcctatgt aacaggccat tacataggaa ttgcacggga tttgtcaaaa 240

cccaatcctt tttccccaag gggttattcc tatagggttt caatcctcta ctgggggttg 300
gatactacat ggggaatcga ttggtttctt gccctggaat cagtttcgtt accggcaaata 360
tttgtgttct cgctctgacc agccgcgaag gccataaca tcttccaaca aggatctact 420
caacagtacc gcgagctggt tgggtgagg 448

<210> 51400
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A7

<400> 51400

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tgcgagaagg caagccatct agagggtcca gtagctgagg gcagccatga gcctctcaag 180
ggaggaaagc cgcacgttgc tgacttcgtt catggacctg atggcctcgg gaacgtagat 240
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gtctcgcgat ttcttgaga ggtctctgtg ctgccttgg gtcctctgac aaacatagca 360
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<210> 51401
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-A8

<400> 51401

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tgcggtggcg cgctgcagct cccgcctggg ttccgcttcc accccaccga tgacgagctg 180
gtgatgtact atctctccg caagtgcggc ggctgcccgc tcgccgcgcc ggtcatcgcc 240
gaggtggatc tctacaagtt cgacccatgg cagctcccag agaaggcgtt cgggtggggag 300

aaggagtggt acttcttctc gccgcgcgac cgcaagtacc cgaatggctc caggcctaac 360
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 ngccccgt 428

<210> 51402
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A9

<400> 51402

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 gaataaatga ataatacgtc tagaactgat tttctgtcaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaa 215

<210> 51403
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B1

<400> 51403

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 gacatcgggc gcgacgactg gctgcaggcg ctgccgcgcg ctctcgtcgc cggctttgtc 360
 aaggccgaca ttgatttcca gcgcaagggg gatgtgtcat gaaccacggc gacactggtg 420
 ggcatcgatg gggtcacggt caca 444

<210> 51404
 <211> 351

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-B10
 <400> 51404
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 gtactgatgc tgctcctgtg ttccaccagg tcgcagagaa catcgctgac tatctgggtg 180
 ccaaaaacac cctcaagatc atgcccttca agctaccggc cgtcggtcct tatgatgtcc 240
 gcgtgcgcat gaatgcactg acgatttgct gcaccgatgt gcactacctt caggagatgc 300
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 gggtattctg tgaagcatcc aagccaggct attgttatga aaatttgctg tctgtaagca 180
 tgtgaacttc cgatgttgcc acatgctgga tcagtctgaa taagtaagta tgcagctcta 240
 ggtggtcagc tgcgtctacc acaatgagca tgaacgatg gagaaatata tgtgaaccca 300
 ttatggctat gaattacatt ttgccttttc gaaataagaa tactggcggc gtctgttcaa 360
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 cgca 424

<210> 51406
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-B12
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ttgcgagaag tgagcaccct gaaggggagg atggagtcag tggatgaagca gaaggggtctg 180
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gaaagaaccc ctatatattg gctgtgggtc gcgggaaatg aatgatggtc atatttatga 360
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atgct 425

<210> 51407
<211> 416
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-B2
<400> 51407

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accttatgca ttaggagtag ttctagtcta gttctagttt agccctagtt tagtattcca 180
atccccaaat tctccgctc tctcgcactc tacgtcgatt agaggagtct aggtcggcct 240
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gatccaggcg ccgtcggcga tctaccgtcg ccctcgcga cgcgcgacc gtccggccct 360
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<210> 51408
<211> 363
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-B3
<400> 51408

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 cacaaggaga tgataacgaa gcaggagcag gccagctgg ctgcctnctc catcgatagc 240
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 gag 363

<210> 51409
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-B4

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 atcaccactt caacattcac atacagcttc aactccacat attacatttt accacttcca 180
 ttattactac atatctacaa ttgaaccac ttcaatcctt attctctgat cacacttact 240
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<210> 51410
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-B5

<400> 51410

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 aatcatcata tcgtagacga cgcgcagcat taaactatca atcaccggat ctggctcttt 120
 cttggccctg tactgtacta ttaatgttcc gttcttgttt ttttattcgg aattgtcgcc 180
 gtttcagtat acgtaaatct cgaggctgat aatacagtaa tactaccaat ttaactgt 238

<210> 51411
 <211> 438

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 cagcggccttt attttatttc ttccttggct tcatcactcg tgcagcgcgc gggacgtacg 180
 tgtacgttcg gtaggcttat tagcttggtc gtcgtaactt agctgatctt gttgcagtcg 240
 gtggacatgc tgatggggaa tccgacggag acgccgcact tgccggggat ggtggcgacg 300
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<210> 51414
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-A3

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 ttggtgggca ctgtaccagc ctaatttata attttccatg agcatcttca agagtttttc 240
 taaattatca tttggagtca tttacataaa aagcactttc tatatctttt taatctcaac 300
 aacttttcta tatcttggtt gcaccctgga gagctattta cgttttctat ctttagctag 360
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<210> 51415
 <211> 400
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-G6

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 tcggcgggtg tgggtagttg gatgttgctg tttaagatga aggtgctgta gtcggcgggg 240
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 gttcatcttt atattaatta ggtgtcttct tgttttaggc tgctgtggt taaagatgaa 360
 gcgcctcggt cgctgaggg ggcgtcggat aattcgggct 400

<210> 51416
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-G7

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 ggaaacgggg aagggagtgt aagggagtga cgtggtggtg gtgggtggtg aggcggagga 180
 gaatacgggt gtgcggtcgg ccgttaagaa tatttctaag actacgtttc ctaagtcttt 240
 gtttgctggt ttccacgacg cttgtgcgtg tacgaaggta gcggggaccc gtggtagtga 300
 cgcgtatcat tctagggaga cgtgtactgt gtatcctgcg gcgaaagaat tgacggcgac 360
 tgggta 366

<210> 51417
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-G8

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 cgtaagtaat ggaaagatag caaaacgggg tgattaaaac caaaccaatc ggttatgaat 240
 caaaaatgac attgagcggg aaaattaggg atggatttaa tcaaaaaggt cggaaaaaaa 300
 atttttaacg gtatatagat cgaatagtaa aaaggtttgt attgactgtt tccataaaaa 360
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<210> 51418
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G9

<400> 51418

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 aggacgggcy cagccttgcc gactacaaca tccagaagga gagcacctc cacttggtgc 180
 tgcgcctcaa gggaggcatg cagatcttcg tgaagaccct gaccggcaag actatcaccc 240
 tcgaggtgga gtcttcagac accatcgaca atgtcaaggc caagatccaa gacaaggaag 300
 gcatcccacc ggaccagcag cgtttgatct tcgc 334

<210> 51419
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H1

<400> 51419

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 tctaagccgg tcgggatatg gactagtcta cgatagatac cgtataagtc atcgcggcca 180
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 cagttgaggg aaagtatcga cgccgaggat ctgacatccg tctacactct tggaacggat 300
 atttcggttt gcggttcttg taatgttgat gagtcgactg aggaccggct tgcagacgct 360

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369

<210> 51420

<211> 375

<212> DNA

<213> Zea mays

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agacagaatt atctgctgtg ttggcttgtg tactttgatt gtaccccaag tattttgaag 180

ttctgaactt atttctgcta attggtgtct gaagtggata tgttgaatgt attttgtttt 240

gttggataga gttcctcagc attgccaccg tatgaaagat gaatctattg atcaaccaat 300

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caatattaaa ctttt 375

<210> 51421

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H3

<400> 51421

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aggacttcta agctggatgc ggaggtttct agagctaagg cgaagtcggt ggaggatacg 180

gcggtgtgtg gtgtgtcgct acgtgggtcg ggtagatcgg ggtcgctgtt ggtgtcgaat 240

ttgtggtagg tgcgttgtgg ttttgatgcg tcgcttgcgc ttggttcgga tccttttggt 300

gttgatgatg ttcgtcctat ggggtcgc at ttggtggagt agtcgtagtc ctagagtctt 360

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<210> 51422

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H4

<400> 51422

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ccaacggcga acctactata atcgcttaat agtgcgggcg cgtaactacc aaagtgagaa 180
agcctcttag cgtctctctg gtcgtcagtc tcgtccgcga ttatactgc gaccgggcct 240
ccggaatatt cgagggcata cccgccctta cgggcgcgca tctcgacggc ctacat 296

<210> 51423

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H5

<400> 51423

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cttaccggag gtatgtggaa aaaccggcga tcctaccaa ggagcgcccg ttgctccttc 180
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cttctcgat acgagaggag aatcagacga tatagtagtc cctaagaatc ctaagaagcg 300
gggaggcaca gaacccttct cattccccgg aagagcatct agtttcatag aaagccctac 360
ttacgaatca gacgagaaga taagcgttct ctccaagcct atggccc 407

<210> 51424

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H8

<400> 51424

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gagggcatcg tggctagtgt cggatcttcg gagtcgtagt tggattcgtg gttcggcctg 120

tgggtgtata tgccttgggt ttttaattggg tctattatcg ggggtgttcgt tacttatgat 180
 gtggatcctg ggggggtggg tgcgcctacg ggttttgggt actgtcatga gggctctgtgc 240
 ctggtc 246

<210> 51425
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H9

<400> 51425

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 tgaacctgat ggcaaggaag atgaaggaca ccgactccga ggaggagctt aaggaggcct 240
 ttcgcgtctt cgacaaggac cagaatgggt tcactctggc tgctgagctc cgccatgtca 300
 tgaccaacct cggcgagaag ctgactgacg aggaggtcga cgagatgac cgtagaggccg 360
 atgttgactg cgacggccag atcaac 386

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 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-A1

<400> 51426

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 ctgcatctgc agttgtcagc agcaaaatta gcagcagcca cagcaagagg caatagagga 180
 atccatgtgc tgtttgtgac tgattgcttc ccaattccaa acctcttctc ttgcaaggac 240
 ctagtgaaac gtgaaggcaa tgcttgatg tacaaacctg acgtgaaggc tctaaaggag 300
 aagctcangc tgctgttggt ttctgtgag cttgctgttc cactcaacgc anaagcacga 360
 ctctacacgg tagacagacg cagagaagca tatgctacaa tac 403

<210> 51427
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-A10

 <400> 51427

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 atccccgcta tcaacaccag ctccgggacc tgctgctgctc ccgagtgggc catccccgcac 180
 agccgcttcg acatgcagct caagctcgtg accagggact ccgccggcac cgtcgccacc 240
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 gcgagcgggg agccgtacac ggtgcacacg aacgtgtaca gccaggggaa aggcgggcgg 360
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 tgg 423

<210> 51428
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-A12

 <400> 51428

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 tcttcagccc tataggctcc aacaagcaat cgcagcaagc aacatacctt tatcaccctt 180
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 acaacaac 428

<210> 51429
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-A2

 <400> 51429

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 cgccaacgtg tgccagaccg agaactttcc cggcggcgag tgtaaggcgg aaggcgccac 180
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 cccccgaata atatgcttca tgggatctca ctgt 394

<210> 51430
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 51430

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 tctaagaatt cgtgtttgta gtctcatctg gttcttgagc atcgtgagaa gcttcattcn 360
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<210> 51431
 <211> 421
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E9

<400> 51431

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aaggccaaga ccaagagcaa tgagaccgcg tacaggtgca tctggggcaa ggtcaccgct 180

ccgcacggaa actcgggcgt cgtccgtgcc aagttcatgt ccaacctccc gcctgagtcc 240

atggggcgca aggtcagagt gttcatgtac ccgagcagca tctaagggtt tgttgagta 300

aagatggact agaaatggcc atgtgtttat ttctcacttt tctctgaact taaaatgcct 360

tgtgttgga acttaaattg ttcaagtgt gaacctgtgg aagttgtgcc aaaatttgg 420

g 421

<210> 51432

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F1

<400> 51432

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tatcatattt atactttact ttactttacg tgcgttatga tgaacgaaaa catcagttcg 180

ctagatctct ctctcgttgt taacactctc tcgtcagttc tcgccattct atcgatgatt 240

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<210> 51433

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F11

<400> 51433

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 aaaaaaaaaa aaaaaaata ccaaaagcaa aatacaatac aaaaaaccac tgtactgtaa 240
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<210> 51434
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F12

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<210> 51435
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F2

<400> 51435

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 cacaaacaaa cgaaaaaaca aaaaaaaaaa agggtttttt ttcccaaggg gtttaattcc 180
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 ttttttcccc tatttttccc attttgaaa attttgggg ctttttaact caatttttcc 300
 gtaattacct ttttcccctt ttgccgttta aaactttaaa gggtttttt 348

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 <212> DNA
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<223> Clone ID: LIB3079-014-Q1-K1-F3

<400> 51436

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 ggtggaagat gacgaggatc ctgaggttga tcctgaggat cccgaagttg atcttggcga 300
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<210> 51437
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 <212> DNA
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<223> Clone ID: LIB3079-014-Q1-K1-F4

<400> 51437

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 agtaacggcg gtgctagggc cgtaacagc agtggaggcg atgggagtag tggtagcggc 240
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 ggtgacggct ttactaacc ggacgacaac gctttcggta tctgccgcgt ttgcgggaac 360
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 ggcggcggcg gc 432

<210> 51438
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51438

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tgagttaagt aaaagaacta tagtgaggnt agtatccgag tacgag 346

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<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51439

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catagtagct ataccgtaa acagagtcac ggtacactcc aaatcaagaa gacctaagga 240
ggtagaggat gaccgtatcg aagtctcgaa ctcgagacac tgtcacacca aagtacatct 300
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aaccgtcact agctccgact taaataacct 390

<210> 51440
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F8

<400> 51440

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cgacgacgtt ataacgctat cgtgatgttg ctctgtagac cacgtcgtaa tagtagccat 180
tacctacgcc taattttaacg gttacgatga ccttatttac gcctccatag taatttccccg 240
ccggcgctcg acctcagaca gaaacacccg cgccgcatta aacaacgagc cgatacgtta 300
ctgtgcgcga tctaccacca ccaataacaa aataagccct tccccactaa aaaaaaaaaa 360
aaccaaacaa aaaaaaacaa aaaaagaaac aaa 393

<210> 51441
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F9

<400> 51441

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ccccatttct cctcttttcta ggttttctacc cctcatcggt cctcgctcca cggccatggt 120
gaggatgaag caggtaaaga tctcggtaaa gaaggacgtg gattcgtaca caatccgcgg 180
cactaacaag gtcgtccatg tgggcgactg cgtgctgatg cgggcgctcg actcggacaa 240
gcagccgtat gtggcgcggg tggagaagat ggaggccgac ggacgcggca gcgtagcggt 300
gcaggtgcgc tggtagtact cgctgagga atccaaaggc ggtagccggc ag 352

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G1

<400> 51442

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314

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<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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catgcatggc ctaagaagct ttgtgcacga caagactcct gagatcatgc ctgcagttaa 300
caagttcttc actgacccta agtgaagcat gttgattggc atactactac tactactngc 360
tactggggat tntacacttt gctggcaact caatatgttg gggacattca tg 412

<210> 51444
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G11

<400> 51444

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ccaaaatcta aactcaaaaa cctctaatac attaccctaa aaacaaagac ttcccagatc 180
aataacctta ctttactta taaaaccatc atcatcccca tcaacatcaa ctacaccatt 240
aaccacctat tacactacct ctgcatactc tgcaaccaca aca 283

<210> 51445
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G12

<400> 51445
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 aaactggtga cggtaaaaat ggccatgata atttttttgc aaaaaaaacc cccccctttt 180
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 tttttggcac cctatcccaa ttccttttggc ttcgggaaat atgcccattg tacagcccc 300
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 tccggacca ggggaaaaaa ggcccccccc g 391

<210> 51446
 <211> 171
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-G3

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 cggagtgacc gtaccgccac ccaattccgg aagcagaggc ggaggcggag g 171

<210> 51447
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-E8

<400> 51447
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 gtatcggtc ttagggctct tctgtccta atgtcgccgg cggaggaatg ggtctcgggt 180
 ccggcctctc ttcttcggag tgctcgctc ccgatcacgg taagaagctt aagtctggcc 240
 ctattgcgca ttacttttt taggcgctta tacttgcggc cgagttacat aatagcgctt 300
 cgcttattta tctctcttct gagtatatcg acgccgtc 338

<210> 51448
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-G4

 <400> 51448

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 taagcgatat ataaagaccc acgaacacac gctcaggcgc tttagcgggc taaggtcacg 180
 gaccgatcga aatccgcgtc ggagtagtcc ctatcgaacg ggacgacata agcgcgggct 240
 gcgcgggctt aatatacttc cgccgtcacg cgaagtccgc tctacgggaa gaaggcggcc 300
 ataagaccct cgacctctta acgttgagag gaga 334

<210> 51449
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-C11

 <400> 51449

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 acctacaagg agctcgagaa cggcgtcctg tgggaggtcg agggaaagtg ggtcacccaa 180
 ggtcctgttg atgtggacat tggtgccaat ccatccgccg aggggtggtga ggacgaaaagc 240
 gttgatgaca cagctgtgaa ggtgggtgat attgttgaca cattccgtct acaggagcaa 300
 cctccttttg acaagaaatc atttgtgtct tacatcaaaa aatacatcaa gaatctcact 360
 gctgtgttgg agccagagaa agcggatgag ttcaaaaagg gtgt 404

<210> 51450
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

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gacgctgtcc	atggacaggt	cctccggctc	gggcttccag	tccaaggccc	agtacctcta	300
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aaaccaacaa                                     70
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<212>	DNA
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gagctctcct	gggtccggat	gaaattagaa
120		
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aggcagtaag	ggagtatagt	cttgaaagta
180		
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cagggaaagtc	gcgaggccgt	tcttcggaga
240		
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cgcggaacct	cccaattaag	ccaacacgtc
300		
gcacggtata	tctatagaac	cccgtatatt
cgagagtcgc	ttgataacga	tagtcggttt
360		

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<212> DNA
<213> Zea mays

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<400> 51453

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<223> Clone ID: LIB3079-014-Q1-K1-C6

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C9

<400> 51455

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gtccttatga gaaggagcgt cttgatgctg aactgaagct ggttggtgag tatgggctga 180

ggtgcaagcg tgagctttgg aggggccagt atgcactgag caggatccgt aatgctgcaa 240

ggcacttgct cacccttgac gagaagaacc cccgtcgtat ctttgagggt gaggcacttc 300

ttcgccgcat gaaccgctat gggctgcttg ctgagggtca gaacaagctt gattatgttc 360

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 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-D10

 <400> 51456

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 <212> DNA
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<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-D9

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<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E1

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<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ctcagagtcg ccgcgcgcga aagaggtctc gtcaagtagt ctatcgccga ttacgagttt 360
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<212> DNA
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<223> Clone ID: LIB3079-014-Q1-K1-E4

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cgtttaattt taaggcttat gttgctgctc a 391

<210> 51465
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<223> Clone ID: LIB3079-014-Q1-K1-C10

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agaacggagc tacattgcac gagaaagacg caaaaatggg agatgcaata ctccctgggtg 240
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<210> 51466

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-014-Q1-K1-E5

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<210> 51467

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E6

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cctgcacctt catectgcgc gctccagtcg accgcgcact gggaccagcg cagtgtccag 180
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<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-A3

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g 361

<210> 51472

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-A4

<400> 51472

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tcacgtcgg cacagagttg gaggacgcg tagaatgtcc gacggatcat gggccttatg 120
tattgattac gctacggttc gccttcggtat tatccacgac cgaattaatc caaagcg 177

<210> 51473

<211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A6

 <400> 51473

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 agttatttag aatctcacta gggccgttta acggacgtcc taaatcttcg gcgtaataag 120
 ccatacggga cgtaccggaa aggataagcc cggcgaggaa acgaagaaaa atgtctaagt 180
 cgtaggagcc atcgtctacc atcatgagga cgagatcgtc ttcacgcgta tacgcgtcgc 240
 acgcgccgcc ggccggcgaaa ggctaccgac cgtaaactcg ctagtggttaa atcgccataa 300
 actcgagtac tcaaagagat tagagaatcg ggtatcagcc gaaaaggtaa aacataactca 360
 ta 362

<210> 51474
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A7

 <400> 51474

 tttggtctga tttatgtgct tgtagagacc gacaaactag tgaataaacc tcctctccat 60
 cgggacttcg ataagaagga acacgcacgc taatcgcac ctaagttaag attgttagaa 120
 gtcaacaaat tattattagt cttcttgggg atcccgttca acgggatcgg ggccttcggc 180
 gtcttaataa ggttattggt gtaagttttc ttattttcgt tataagcctt attgtttttg 240
 ttctacgtat tcttcttcgt atttacggga acgtttttca ggaccttctt atttttcacg 300
 ggcggcgcc aattcttggt gttcttctta ttgctagccg taaacggc 348

<210> 51475
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A9

 <400> 51475

cgctttttctc atttcgggga aagcatgaag aatcgtctgc tggactgaga gcattggctc 60
 ttcttggagt tggcgcctct ggtcttttga gttttgctac aatagcatct gctgatgaag 120
 ctgagcatgg cttggcagcc ccagattatc cctggccaca tgctggcatc atgagctcgt 180
 atgatcacgc atcaattcgg cgtgggcac cagtttacac gcaagtttgt gcctcttgtc 240
 actccatgtc cttgatttca taccgtgatt tggttggcgt ggcctatact gaagaggaaa 300
 caaaggcaat ggctgctgag attgaggtag ttgatgggcc taatgatgaa ggtgaaatgt 360
 tcacccgccc tggtaaactg agcg 384

<210> 51476
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B11

<400> 51476

cccacgcgtc cgatgctacc taggccagcc agccccactg ggtctgggtg cagcgatgca 60
 gtcctcgtaa cagaagcaga tcttgagggc tatgatactt atattggtac caggaaagat 120
 gcggtgtcgt tggaaagtag cactcgcagt cccatcatga ggagattgtc ctgcctcttt 180
 ggctccctca aacttagtaa cagcaactgt gagccagctt caagccggtt cactgaggtt 240
 cgcgctgct aggtaggtag tgtcttctc cagttttgca tgctgcatca agagtgtatc 300
 tctagatagg caggcaatca tccaaaaagg attttagtaa gcctgtgttc atttcatggc 360
 catggggcag tgccatcggg aagaaagttg tgtgca 396

<210> 51477
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B12

<400> 51477

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 ggcatttgga atgctggctg gtggatcagg cattacttca atgtttcaag ttgccagagc 120
 aattcttgag aaccctaag acaacaccaa ggttcactta atttatgcta atgtcacata 180

tgaagacatt cttctgaagg atgagctgga cgacatggcc aaaacctatc ctggccgctt 240
 taagatctac tatgtgttga atcagcctcc tgagaactgg aacggtggtg ttgggtttgt 300
 gtctaaggaa atgatccaat ctcattgtcc agcgctgtct gaggacattc agatcctgag 360
 atgt 364

<210> 51478
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B3

<400> 51478

tggctctgga acctttgggc tgatttatgt gcttgcgcta ctagtacact aggcaatcct 60
 cgctcgata agaagctagt cgtcgcgaat cggaccgacg gttgcgggaa gctggcggcc 120
 cgcgaggtag caactaagga agaagccgcg aaaaaggcct ctaaaataaa cgcttaggtc 180
 tccgcagaac cgaatgcgac taagaattct gtcggcctag tcgccgtcgg tgtctccggg 240
 ggccctaacg tttacgtaag caataccgcg gtggttactc ctaccgttat cggctaggat 300
 ttcgtataga atgcggagag cctttagcgc actattacgc cggaagtcac aaacgacggt 360
 aaagactcgt atgctcttgc catcacgtta ctcaccg 397

<210> 51479
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B4

<400> 51479

gcttgaacc tttgggctga tttagtgtt gtttatgtgc ttggcccagag gtaaatacgc 60
 agagagagag gggctaattg gtatcggagt aaagaccagt cgagaagtcg gtcgtagcta 120
 ggagcctaga gggtggtata ctatcggacg ttgtcgataa agcccgaact cctcacgtaa 180
 tgaataatga gtcgcgtggc gtagcccgcg acccttcggt aacctgccct cacgcgaccc 240
 tattagtttt agttctattg ttgagcgtcc tcccccccc acggccctct acttcaacta 300
 ctactgggaa ttaatcaacg aagtatcgtg tgtttacctt ttttacggcc ctctcgcaac 360

taatcagaaa cgactaagca ttaagtagcg cataacgtga cgt

403

<210> 51480
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B7

<400> 51480

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aagtcagtca atcagtagga gtcgcgccgg cgcgcgcgcg cgcggagggc agtcgtagtc 120
ggggtcagtc ggaaaggctg ggagttacgg ggaggggttg ggcggagtcg aagtggactg 180
agaataagac taattgttag gctattcctg ttaagtgttg taatggttcg tctaagaagg 240
tgcattgagtc tcaatagtct cgtgatgttc aagctgtgtc tactgctgca cttaattgtg 300
gt 302

<210> 51481
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B8

<400> 51481

cttggctgga cctttggtct gatttatgtg cttgttactt ctcgttccgc tgactactta 60
ctgattgttc ttcgtctggt cctttatgtt tggcgttcgt gccgtatatt agggaggagt 120
cttcttgatt gattggttac gagtcattag gtcttcttct tgggtattct agttcatttg 180
ttgttgggta tggttcattt cttgttaggt tagttgtagg tgcatttggt gttggtacat 240
gggtgtgttg tatttacggg tgttggtggg catttctttt tgttgtagta ggatctcaag 300
gggtggaatg atggctcttc gaaaggacgt ccggttgtct ctcgtcgtcg tcgtacgtct 360
gatacgctc ctcgagcctg ctgctagggg tcctaggtat ggggacggtg 410

<210> 51482
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C1

<400> 51482

ggcttgggaac ctttgggctg ctttatgtgc ttgacctgac tcttctttac tattcctact 60
gctattctct gatggtagat cagggggtag gtttactcta attggtggta gttcagggtc 120
ctacttttta tttttaaaact tacgttgtct aggccggaga ctaacgcgcg ttcgtctgat 180
tctatcggac tctagctttt acgctgcttc ctcactctct gtgctatccc gaccccgctct 240
ctcagcccca ccccgctcctt accgcggcga ccagcggaaa cccctctaac ggctagagag 300
ggctaagccg gcggatccgt attttatgga ggtacggacg ccgagttcgc ctctgaggag 360
cgttcgtact tgggaccact at 382

<210> 51483

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H9

<400> 51483

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ccacgcacag cagccgcagc attaccgtga ctccgctggt ggcggagtct ctggtggcac 120
acctgccgag cagcacccta tccacatgga cttctcgcgc aatgaagctt ggctgcaccc 180
atcacaccac cagcatcccc atgaacagaa ggtccttcat tctcgcccta tcggaccagc 240
tgggcatggt gggcatccag gccatgttgc ccactctgtg catgccgtgc atgttgtgca 300
tcaccatcct actggctatg ggatgatatc agatgcacaa catactcttc agatgatgca 360
accacagctt gagtcacagc ttc 383

<210> 51484

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G3

<400> 51484

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gtctgaagg	tttgcttgag	gactactgac	agtacagtta	atacatcaga	gattgcaaag	120
gcatatggcg	gaggtggaaa	acgaagttcg	agttcattca	ctctaagaat	ggatgagttc	180
aacatctgga	cttcagtga	ctcatgaatt	gaactggaga	ggtcacatag	tgttcatact	240
gtgggaactc	gcaaccagct	catctgggca	tggattccct	cagtggtgaa	catgtgaaga	300
tggggtggtc	tttttgtgct	ccggtatgag	agggaggaaa	acaaaatctt	agtctaacct	360
accatgttga	tatgagctta	caggagaata	atctcttcga	tatgaatgac	tggagagcaa	420
tttgagggca	taatgctt					438

<210>	51485
<211>	384
<212>	DNA
<213>	Zea mays

<400> 51485

<210>	51486
<211>	417
<212>	DNA
<213>	Zea mays

<400> 51486

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 ttgcttgctg gagtccttat ccaatcagtg aaggcactaa actcgcaaag ccgttggaat 300
 ctgcgagcaa ggtcatgcac atcttggttg atgaagttaa tacagcctgc actgcaactc 360
 ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg aggggtcaaaa tcttctt 417

<210> 51487
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G6

<400> 51487

ctcttttaaa atgtcgatga attcaatctg tggcttaaat atctcgtcag aacagtgagc 60
 ttgctgagat gtttcatctc actcttgcat tactcaatgc aggtgcttgt tgctcatcaa 120
 ggggagcggg aagtagcagc acaccacct tcattctcat aataatgctg tccagacgca 180
 gccatgatct aattagaaac ttcttgtaaa aggatgttcg ttcttaacta gtcgtgcgca 240
 ctgattaatt cagttcatgt tgatattggt gtcttaccat tgctagcaga tcattaatgt 300
 ctgatattgt ggcttaacac atcttggttg atgaagttaa tacagcctgc actgcaactt 360
 ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg aggggtcaaaa tcttctt 417

<210> 51488
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G7

<400> 51488

gcacactgac ttggctgaaa aatatggtgt ttctggtttc cctacattga agttctgccc 60
 taagggaaac aaagccggtg aagattatga tggaggccgg gacttggtg actttgtcaa 120
 gttcattaat gagaagtgtg gcaccagccg ggatccaaag ggccacctga atcaagaggc 180
 tgggcttggt ccaagcttga atcctcttgt gaaggagttt ctcaatgctg ctgatgacaa 240
 gcggaaggaa gtcctctcta aaatagaaga ggatgttgct aagctcagcg gttctgcagc 300
 caagcatgga aagatatatg tgacagctgc aaagaagatc atagacaagg gctctgacta 360

cactaagaag gagactgaga ggcttcaccg catgctggag aagtcaatca gtccttccaa 420
agctgatgaa ttcatac 436

<210> 51489
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G9

<400> 51489

gaaaccacac ttgatagcaa gctcaagacc tctgcaaggc gcttaagggg tgatgctgca 60
gagtctgtac atgatatgga tatcgatggg gacaatggga ggcgtcggaa acgggtcaaaa 120
agcacaacaa gcccgttcaa gaacaatcac acagaggatg gcggttccgt atttattggc 180
gaagatactt acaacggggag tcagcaaggg acagaaagcg aagactatac taaatttact 240
gtgctgaagc tgaagcagga gctcaccaag cacgggtttg gtgctcaact actccagttg 300
aaaaatccca acaagaagga tatcggtgcc ttatatgaaa agcatgtcat cggcaagtag 360
ttcctcggca atacttgtat ttatgcttta tag 393

<210> 51490
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H1

<400> 51490

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gtggaggtgc gcactacctc gcaacatggc aagctggagg tgctttcggg gcagcagttc 120
gtcgactgcg accacgagtg tgattcatcg gagcctgatt catgtgattc cgattgccat 180
gggtgggctaa tgacgactga cttcagacat ctccagaacg ccggtggcct tgagagcgag 240
aaggattacc cttacactgg gagtgatggc aaatgcaagt ttgacaagta caagattggt 300
gcttcagttc agaacttcag tgctgtgtct gtggacgagg ctcatatttc tgctaacctc 360
atcaaacatg ggccattggc aatcggcatc aatgctgact acatgcatac atacatggga 420
agcgtgttat gcccatacat ctgtggcag 449

2025

<400> 51491

<210>	51492
<211>	374
<212>	DNA
<213>	Zea mays

<400> 51492

<210>	51493
<211>	382
<212>	DNA
<213>	Zea mays

cgcttggctg tgactcggag ggggtccaagg gaggtgggac gtttttcggt cgaagcggaa 120
aactagcggg aatggaaggg cgaggcagtc ggcaggccga gggcgggtggc gccggatacc 180
ggctgggtgcc ggtgcaccca aagtgcgaca atgttcggtg ccagaagctg caccgcctac 240
ttgcgtctac gtcatgcgag cggatgctgg cgccactctg caagcaaaga tagatgaatt 300
caagcccaat ctttcagatg atagctgac 329

<210> 51496
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H7

<400> 51496

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gatggacgga gcatacgggt taatcatgct aacgagaaga ccggtggctt tcgtggcggc 120
ggtggctatg gtggcggcgg ctatggtggt ggtggaggct atggtggtgc tggaggaggc 180
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ggtggaggca actttactgc tggaggtagc gacagctttg ccaacagtaa ctatggttct 360
gacagtagtt ttggtggaaa cgggtgctgga ggctatgatg caaccggcgg ttccacaggc 420
gaagatgggt tctctggcac acc 443

<210> 51497
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-G2

<400> 51497

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gcgggcagct gccgcactgc tcgtggccgc cgccgtggcg gtgtccgtcc tgggtggtggg 120
cgcggcggcg gtgtgcgaca tgagcaacga gcagttcatg tcgtgccagc ccgcggcggc 180

caagacgacg gacccgccgg ccgcgccgtt cgcaggcgtg ctgcgacgcg ctggcggggg 240
cggacctcaa gtgcctgtgc ggctacaaga actcgccgtg gatgggcgtc tacaacatcg 300
acccaagcg cgccatggag cttccggcca agtgccgnct cgccacgccg tccgactgct 360
agcagtgtgc tagccaagcc aagccaagca gggaggcccc cggcattgct agctgtacgt 420
gtctgtgtgt gcattctgcag caggggtgc 448

<210> 51498
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E9

<400> 51498

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acgccttcca cggcgacaag gccacggcg gcgtccatga cggtagcgag atcgtgctct 120
ggaagtgggtg cgagggcgac aaccagcgtt ggaagatcct cccttgggtga acgaacgaaa 180
gaaactacta gctgggtacc taataataat tctgctgggt gcggcgatcc caaaataaaa 240
gaggccgggt gcgatgcac tcggacttct cgagtgggtg ttgcgtcaga cagccagcca 300
ctgtgggggt agtggttcaa catttgctag cctgcttgcg cgaggaaggg gggtcactga 360
ctcaagagaa gggcctgggt ataggctgct gcattatgaa tttctgatga tggctta 417

<210> 51499
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F1

<400> 51499

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ggaccaattt gatgatctga agaagacctg gcttatcaaa aggtgtcggg caatgaatgc 120
taaactaagc tatctggagc atcatctatt gcgtgacact tacaccaagg acacagtacc 180
agcactgcac aggatcagga agtatcttgt agaggccaca aaagaagcat ccaattctta 240
taatgaagcg gtttcgcggg tcgctgagta ccagggtgta gatccacggg tcgatgtgat 300

tgcgaggcag taccacgaga ttgtaaagaa actggagggc atgcagtgga caattcacca 360
 ggtggagatg gacctgaaac ctcaccatga ccacgcagct gtttaagtcc acatctgttg 420
 gaggccatgt ttattacctg aatgcagc 448

<210> 51500
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-F10

<400> 51500

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 cttgacggct gctgatgcag ttgcaaccaa tgggtgtgaac ccgtggaatt ggagagacac 180
 ctctactgat ggtattaatc tgcacatgtc acaacacaca agttaaatca atacctctga 240
 atgggtggcc tttaacttct cagtgtctaa aattgggtata atttgaattg ttgctatctc 300
 actgtgttgt gtactccctc cgtttcgttt tagttgtcgc tggatagtgc aaaattaaac 360
 catncagcga caactaaa 378

<210> 51501
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F11

<400> 51501

cccacgcgtc cgcacacgcg tccgcttgcc actagcttct atgagtatgg ttgggggtgga 60
 tccttccact ttgctcacag atggaatgga gaatccttac gtgaaagcat caagcgacat 120
 gagcattttc ttgccctgca acttggtttg aaaccaggaa tgaaggtttt agatgtgggc 180
 tgtggaatag gtggaccact gagagaaatt gcaagattta gctcaacttc agttaccgga 240
 ttgaataaca acgaatacca gataaccagg ggaaaggagc tcaaccgttt agcaggaatt 300
 agtggaacat gtgattttgt caaggcggac ttcatgaaga tgccgttcga tgacaacact 360
 tttgatgctt gttacgccat tgaggcaaca tgt 393

<210> 51502
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F12

 <400> 51502

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 gagaagtccc acatcaacat tgtgggttatt ggccatgtcg actctggcaa gtcgaccacc 120
 acaggacacc ttatctacaa gcttggaggc attgacaagc gtgtgatcga gaggtttgag 180
 aaggaggctg ctgaaatgaa caagcgggtcc ttcaagtacg cgtgggtgct cgacaagctc 240
 aaggctgagc gtgagagagg taccaccatt gatattgctc tgtggaagtt tgagaccacc 300
 aagtactact gcacgggtcat tgatgccctt ggacaccgtg acttcatcaa gaacatgatc 360
 actg 364

<210> 51503
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-F2

 <400> 51503

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 ggagtcgttg cgacaactga tgttgtggaa gcgtgcactg gcgtgaatgt ggccgtcatg 120
 gttggtggat tccccaggaa ggaggggaatg gaaaggaaag atgttatgtc taaaaatggt 180
 tcaatctaca aaaccaagc atctgctctt gaagcccatg cggcccccaa ctgcaagggt 240
 ctggtgggtg ccaaccacgc gaacaccaat gctcttatct tgaaagaatt tgctccatca 300
 attcctgata ggaacgttac ttgcctgacc cggtgggacc acaacagggc tcttggccag 360
 atttctgaga gacttagtgt ccaagtcagt gatgtgaaga atgttatcat ctggggtaac 420
 cactcgtncat ctcagtaccc tgatg 445

<210> 51504

<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-F3

<400> 51504

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cgagttcgac gcccgcattgg ccaaggccaa ggagcagggc aagctggtgg tcatcgactt 120
catggcccc tgggtgcagtg ggtgccagat gatggccccg gtgtacgcgg actgcgccag 180
caagtaccct tccgcggtct tcttcgaggt cgacgtggac gaactgctgg aagtcgcgaa 240
gatctacggc gtccatgtga tgccgacctt ctgcttcac aggaacggcg agacgctcga 300
gagctttgct accgtcgacg aggacgagct ccgggacgcc gtcaggaagt acgccgncgc 360
tggcactacg acggctcctg cctcggcgtc cgcctaattc aggagatgtg atgtgtagca 420
aatagcgcgc gcgca 435

<210> 51505
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-F4

<400> 51505

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cgattgactt gcaatcccca attggcagtc tcattgggag acaagttgtc aaagttggaa 120
gaagttcttg tatgacaact gggactgttg tcgcatacgc acttgagtac aatgatgaga 180
agggaaatatg tttcttcact gactttcttg tcgttgggga gaaccaacaa acatttgatc 240
ttgaagggga cagtggaagc ctcataatct taacaggaca agacggtgag aagccgcaac 300
ctataggaat tatatgngt ggtacagcta accggggaag gttgaaactt aaaagtggcc 360
agggtcgga gaactggaca agtggagttg atcttggccg ncttcttgat ctcttggagc 420
tagatctgat cacaac 436

<210> 51506

<211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F5

 <400> 51506

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaataaaa aaaaaaaaaat aaaaaaaaaat aaaaaaacaa aaacacaata 180
 taaaaccctt atattatcca ccaaaaactt aaataaaaac atcttatatt catccaataa 240
 ataaaattta aaaggaacac tgtaaaaaaa cataatcatt ataaaaa 286

<210> 51507
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F6

 <400> 51507

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 ctgaatggac tgaaagagtc agcagatgtg acagattgaa atctccggtt aggattgcaa 120
 tggttggaag gtatactggc ctgtcagact cctacctatc tgttataaag gctcttttgc 180
 atgcgtcggt tgctttggac aggaaacttg tgggtggactg gggttccttcc tgtgatcttg 240
 aagattctac agcaaaagag actcctgacg cctatgaaaa ggcatgggag tcgttgaagg 300
 gtgcagatgg tgtgttggtg ccaggaggtt ttggagacag aggagtccaa gggaaaattc 360
 tggctgcaaa atacgcgcga gaaaacaacg ttccatatct tggcatttgc ttgggcatgc 420
 aaattgcagt ga 432

<210> 51508
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F8

 <400> 51508

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 gtagagtatc aagttaattt tgttctgttt aagatatgta agaaagtaca taaatgtact 300
 ttaaattggg gaatattttg tttatagaaa gacttaaagc ttcaattttg tgttgatttt 360
 ttagattgat accatttt 378

<210> 51511
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G11

<400> 51511

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 gggcagcgcc gcggctcggc ggttcgcgtg ggccgagatc gagtccgtca cggcgggggt 180
 ctctgccagg gtcacgcggc agggcggtt cagcaccgtg tacctggcct gcctctctc 240
 ctcccgcctc ggcgcgtca aggtgcagcg cagcagcgag cgccttcacc ggccttccg 300
 ccaggagcgc gacgtgctcc tcgcgtccg acaccgcac atcgtccgcc tgctcggata 360
 ctgcgacgaa cgagaggaag gcgtgttggt g 391

<210> 51512
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G12

<400> 51512

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 aaatgatgcc aaatgttgac ttgacatttc ggctgaactg ggccagtgtt ggtgaaaagc 120
 gtgatgatac tcttgactat actattttcg ttggtgattt ggctgcagat gttacagatt 180
 acttgttaca agagacattc agggttcatt atccctcggg gaaggggtgca aaagttgtga 240
 ctgataaatt gacaatgcgt accaagggtt atggatttgt gaaatttggc gatcctacag 300

agcaagctcg tgcaatgact gaaaatgatg gaaatgcctt gtctttcagg cctatgcgta 360
 ttggtcctgc agcaagtag 379

<210> 51513
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D3

<400> 51513

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 gatccgcgac gggctcaagg ctgaccccaa gaagtaccgc aagatgaagg agaggcttgt 120
 cggcgtctct gaggagacca ccacgggtgt caagaggctc taccagatgc aggagaccgg 180
 cgccctcctc ttccctgcc a ttaacgtcaa cgattccgtc accaagagca agtttgacaa 240
 cctgtatggt tgccgccact cgctccctga tggctctgatg agggccactg acgttatgat 300
 cgccggaaag gttgccgtgg tctgcggata cggtgatgtc ggcaaggggt gtgctgctgc 360
 cctcaagcag gctggtgccc gtgtcattgt gaccgagatc gaccccatct gtgccctnca 420
 ggctctgatg gagggtcttc 440

<210> 51514
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D5

<400> 51514

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 tcttgcaact gagaagctta aggttctcca cttccacaac aacatgacgg gagatgaagg 120
 tgctatgtat attgctgaga tggttaagcg ttctccgaat gtagagagtt tcagggtgctc 180
 agcaacaagg ataggatctg atggtggagt cgattgtct gaggcattag ggacatgcac 240
 tcgcctgaag aaacttgatc tcagggacaa cttgtttggt gttgatgcag ggtagctct 300
 cagcaaaacc cttccaaagc ttctgatct tgttgagctt tatctcagtg atctcaatct 360

agaaaacaag ggtactatag caattgccaa agccctcgaa cagtcagcac cacagttgga 420
 ggtccttgaa atngctggaa atg 443

<210> 51515
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D6

<400> 51515

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 gatggtgaca gaaggcaacc atgagaagga gcacattcca ttttttgagt caggatttca 120
 atcttataat gcacgatgga aaatgcctta tgaagagagc ggatctagat caaatttgta 180
 ctactctttt gaagttgctg gtgcacacat cataatgcta ggttcataca cagattatga 240
 tgatagctca gatcagtatg cttggctaaa ggctgatctt gccaagggtg atagaaagag 300
 gacaccctgg ctcatgtgtg tgttgacagt accatggtac aatagcaatt gggctcatca 360
 ggggtgaaggc gacagtatga tggcttcaat ggagcctttg ctgtacgctg ctcatgtgga 420
 tatggtaata gcaggtcatg 440

<210> 51516
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D7

<400> 51516

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 atcttataat gcacgatgga aaatgcctta tgaagagagc ggatctagat caaatttgta 180
 ctactctttt gaagttgctg gtgcacacat cataatgcta ggttcataca cagattatga 240
 tgatagctca gatcagtatg cttggctaaa ggctgatctt gccaaggctg atagaaagag 300
 gacaccctgg ctcatgtgtg tgttgacagt accatggtac aatatcaatt ggtctcatca 360
 aggtgaaggc gacagtttga tggcttcaat ggagcctttg ctgtacgctg ctcatgtgga 420

tatggtaata acatgtcatg t

441

<210> 51517

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D8

<400> 51517

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agaacctaca gagccatgat aataatgaaa tctatgaaaa ggctgtgaag cttcttgaga 120

cttactggat ggaggaggaa gatgatgcaa tggctactgc tggggaagct gtcctgctg 180

tttttgactt tagccaaggt ggcaaccctc ctggtggtgg tttgaacctc aactgaatac 240

agtatttgac caaaaggggtg ttaattccct catgacaacc tagtctggtc gattccatgt 300

gggataatgg tttgtggttg gtccagtaaa ttcgagattt caaggagat gggtagcat 360

tattcccaag ctgtcatgga tatcagtatc gcagggtctg taacaggacc ataatcgctg 420

aacatgagtc tgggtttttg agc 443

<210> 51518

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D9

<400> 51518

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caagactaag ccatccgagg agcacgtgat tgcgggatgg gcgccaagg tgaatgcata 120

agagccttgt gctttggtgc tacctggtgg actccatcca tttatcttat cagtctttgt 180

cagtgggtgtg gataggtgtc aagtctgtag cctagatgca tgattcagtt ggaattatgc 240

agtgccgtgt ctgagtgact cagttctggc tgttgcggtt gtgcatctta cttctgttg 300

ctggttttgt ttgaggccat gggcatctct tggtcctatg ctgtgagagc gctgtaatgt 360

gggtaccaaa taatggagct gcttttatgc t 391

<210> 51519

<211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-E1

 <400> 51519

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 aaggtggcag gagagggttaa gtgccacaag tacagccggc gcaagccaga caatggatgg 120
 agctacatgg tcgaaaagct tggtcctcag ggaaagcgtg gtggaggagg gggctggaag 180
 ttcacatcagct tgccatgatgg atcaagccgt ccactaaatg atatggagaa gatgtatgtt 240
 aagcgggaga ctccaaaacg gcggcggagg ataattgcac catacaagtg acatggacaa 300
 cttcagtttg ctgaaatgca aattttctca actgtctttt gacattgtcc agcgaggctg 360
 aagcaagaaa ctgtgaagta gtttgggaacc gccagaacag ctctgtttt ttccacagca 420
 cagtagatgg tttgatgtg 439

<210> 51520
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-E11

 <400> 51520

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 cctacggcga ggtcctcgag tcgaagatca tcctggatcg ggagacgcag aggtcccgcg 120
 gcttcggctt cgtcaccttc tccacggagg acgcgatgcg cagcgccatc gagggcatga 180
 acggcaagga gctcgacggc cgcaacatca ccgttaacga ggcccagtcc cgcggcggcc 240
 gtggaggcgg cggtggcgga tacggtggcg ggcgccgtga tggaggcggc tacggcggtg 300
 gcggtggaag ctacggcggt ggtcgtggag gctacggcgg cggtggggga tacggtgggtg 360
 caaacc 366

<210> 51521
 <211> 411
 <212> DNA
 <213> Zea mays

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tgctctgata atacaataaa gatcattggc gtaagtggaa cctcacacca gcagcttgca 120
actttgagtg gacaccaggg ccagtatgg caagtcgcat gggctcatcc caagtttggt 180
tccatgcttg catcctgcag ctacgacggc cgagtgatca tctggaagga aggaagcaag 240
cctgatgaat gggcactggt acacaccttt gctgagcaca agtcctccgt gaattccatc 300
gcgtgggcgc ctcatgagct ggggtctatgc ttggcttggt gttcatcaga tgggaacatt 360
tcagtcttca ctgctcggtc tgatggaggt tgggatacca cgcgtattga tcaggcgcat 420
ccggttggtg tgacctcagt ttcttgggc 449

<210> 51524
<211> 281
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-013-Q1-K1-E5
<400> 51524

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caatatgttt tggaattaaa atatactact actactacta aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaggca 240
aacaaaaagg aacccaaatt taatccacac ggacttggaa a 281

<210> 51525
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-013-Q1-K1-E7
<400> 51525

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ctccaacctg gactttgggg ttctgaacga cgatatcaag gagctgttct ctgagctagg 120
tgatctgaag cgtttttcga taatatatga tcgaagtggg aggtctaagg gaacagctga 180
agttgtatct gcaaggcggt ctgatgctgt agcggcggtg aagaaatata acaatgtcca 240

acttgatggt aagcccatga agatagagat agttgggacc aataactccaa ctgcatctgc 300
 tgctcttcca gtctccaatg gtggccatgc taggaatgct gtgaggagtg caccgagggg 360
 tgctgcccc a gcaggtgtgc cgcagcgaag acctcatcag aggggtggga ggcgtagtgg 420
 tggatctggg ggtggtcgtc gtgg 444

<210> 51526
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D2
 <400> 51526

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 cgcacagtca cactacagag cccagagccc tagtgtctc cctccccctc cccatggccc 120
 ctcaccgcct cctccagctt ctactgtctc tcgccgccgc catgaccacc gcccggtccc 180
 agaccagtc accagccgcc gcgccatcca cctcaccctc ctctaccgcc gccgcgcccc 240
 caagcccctc atcctgtctc tccccgtcgt cctccaagga caccacatc ttcacctcgc 300
 ccgccgcgtc cccgtcctcg tcccacgcc gcgccaaagt cacctncccg gccgncttcc 360
 ccgcgcccac ccactnccg accccaccga cggcgactgc ggcgctggtt cttctggccg 420
 cgtcgctgac ggtgggtccg atggt 445

<210> 51527
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-B9
 <400> 51527

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 aatgctatca ttgtgctggc tatcatctgt cttcagttgc catttgagtt ggcctatgct 120
 catctatatg agattacaga aactgaggct atgaagtatt tgttgactgc agtatatctt 180
 gttgcaattc aatattacac cagaattggt ggcaagggtg ctgtcaattt gataaagtat 240

tctactacc

369

<210> 51530
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-C12

 <400> 51530

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 tcagggcgct ccgtgttcaa tctccttgcc cgttggtgctc tctctcttca ttcgttccccg 120
 gcctcacccc gagccagtcg tctcgctagg gtttcgccgc cgccgccgcc atgcctcgcc 180
 gcagctcaag aaggtctgcc ccacgccag ctccccgtgc tgcttcaactg aggaacccgc 240
 cacagccagc acgccaggct cctnctncag ctctgttcg agatggtggt ggctccatgt 300
 ttggaagaat tgggtccacc attgctcaag gtatggcggt tggcacgggt agtgccatgg 360
 cac 363

<210> 51531
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-C2

 <400> 51531

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 agcaacttgc atgcaaaatc aaaggaaact gaagaagctg aactcaaaat gctgacaaag 180
 agtttaaatt tcaaggcatc accaatgccc agcttctata aggaaccaac tagtccaaag 240
 gttgagttga agaagatacc tacaactaga gctaggtcac caaagcttga tcaactcaag 300
 aacacatcct caggagggac agaatggaat tcaaatacct cagatcggtc atgtcgactg 360
 agtctcgatg aaaggtctt ccaaaatggt gtc 393

<210> 51532

<211> 79
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-C3

<400> 51532

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cctctgtcnn ngcgcatc 79

<210> 51533
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-C5

<400> 51533

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ccatggagag gggcaggggc gagcgctagg gaggagaggg gctcgatgac cagcgagctg 180
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gtggggtttc tgcattcgcc acgacaggga gaaatcccag aaggaagacc acgtggngga 420
gcagccgtcc gtgcggt 437

<210> 51534
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-C6

<400> 51534

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cgagtagggc tgatacagtt cgattcggcg ggaggcatgg cgtccgaaaa gcacttcaag 120

tacgtcatcc tcggcggcgg catcgcgggc gagtacacgg cgcggggagtt cgccaagcag 180
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tctgcctaa gcaaagggtta cctgtttcct acgaatgctg caagactccc aggattttat 300
gtatgtgtgg gaagtgggtg agagaagcta ttgcctgagt ggtactcaga gaaaggcatt 360
gagctgatcc ttagtacaga naatgtcaaa gctgatctat ccaccaagac tctgactagt 420
gcagctggag caaactttac atatg 445

<210> 51535
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-C7

<400> 51535

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tgtccataat gaggttgaag ataggcataa tcatgactgg atgctgcgaa gagcaaactt 180
ctctgggggc tatgtatgtg tgaaatttga gattaggatt agaaaatcaa agggctatct 240
gttgagttca tcaagcagtc agataagtca gggatccaaa cccaacaatt ctgagatggg 300
gcttagcttc aatatgtgca agaagattgt gcagatgatg aatggcaata tttggtcagt 360
atcagattct aaaagcatcg gagaaactat catgctagtc ctncagttcc agttggaacc 420
tgtgactccg gtctctggag cgt 443

<210> 51536
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C8

<400> 51536

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agacagacta cagggccagg ataaggctga ttaaccaaga caaaaacaag tacaacacac 180
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 ctagtatagc gggtgatatg gctcttgctt ctgcctactc gcatgagttg ccacgatatg 300
 gtcttgaagt tggctcgacc aactatgcag ctgcctactg cactggcctt ctgttggctc 360
 gccgtgtgct caagatccgt ggtttggatc aggagtacga gggcaatgtt gaggccactg 420
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<210> 51537

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C9

<400> 51537

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 tcagggagcc gatgtgctga ttctagatct atcaacattg cgagacgcta cagatgactt 120
 tgctgaaagc aaaatgctcg gtaaaggagg gtatggatatg gtttataagg gagtcttgcc 180
 tgatggccaa gaaattgcgg taaagaggct ttgccagagt tctcgacaag ggattggaga 240
 gctgaagagt gagctagtac tgggtggctaa gcttcaccac aagaaccttg tgaggcttat 300
 tggatgatgc ctgcaagaac aggagaaaat acttggtgat gagtatatgc ccaatcgaag 360
 ccttgacacc attctgattg actccgagaa gaacagagag ctggattggg gaaagag 417

<210> 51538

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-D1

<400> 51538

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 tggcacaaca caggcaagac aatgtttcgc agtgagaggc gtgtaccctt tgatggggag 120
 tactgatgag gccgaaactg gtgggctaac aaaggaagag tatgggataa aacttgcgat 180
 gagctatggt cggtcggttg gcatagtga gcctttcgac aggttgataa tctttgaaaa 240

gattggtgat tcttctgttg tcaagatcat tgagtgtgaa ggtaggcat tagatgattg 300
 atacctacaa cccatgctgt agtttcatgt atcgcatggg agattacctn cagttccatc 360
 tcacttattt aaccaagttc caagtagagt acagcaagag cacaagatat cttgttaggg 420
 aat 423

<210> 51539
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D10
 <400> 51539

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 aatgttngtn tcctgaaagt tgatgtggat gaaatgaaga ccattgctga gcaattcagc 360
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<210> 51540
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-013-Q1-K1-D12
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 ggggtggc 187

<210> 51541

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-A5

<400> 51543

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aacaggttcg tcgccgacag attcagcaac cagagcatga aaaggccaag agggccagtt 180
gcttacccta tgaccattgc cegtgtttta ccagggttgg tcaccattgt aaatcattag 240
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gcatcaggca actaggttgc tgatggctct aggctgaaaa aggatactga gaataaactt 360
ctggtgtttg gttataccta tctcctgaac atggagtggg gtagatgagc tttaggactt 420
gcagtcttag canaatttcc cagt 444

<210> 51544
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A6

<400> 51544

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ccaagcttac tggttttcgt gtcttctgcc ttctgaatgc aactgctctc ttcatttccc 180
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cacggt 426

<210> 51545
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations

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tcgcccccca tggcgggctc agcttcagcc acaccacgtc gctgcagacg gcgccccggg 180
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<210> 51548
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-013-Q1-K1-B11

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taaaagaggc cgggtgcgat gcattctgga cttctcgagt ggtgtttgcg tcagacagcc 180
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tatgtctgta ctctgaatca actatgtatg agatctcatc tcctttctcc tactgaatga 360
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<210> 51549
<211> 444
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-B2

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aataaaaaat aaacaaaaaa aaaaaaaaaat aaaaaaaaaa aaatatataa taaaaaataa 240
aataaaaaat agtcgttctt tttaaaagaa ccaaaaatta aaag 284

<210> 51552
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B5

<400> 51552

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gaggactaca ttggtcagct ggcgatggca tccatggctt cacttgatgg ttttactgaa 180
aacgaacaga tcgatccaag aaggttgcaa gagcaaatgc gagttgtaca aaaagaaaga 240
gaggagaaac ttgcagaggg actaaaagat aggttgcac tttatgttca aggaaacaaa 300
gaggaattta tccagtatgc tgatgctgag gttactagac tctctaagtc cgcatacggt 360
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aagcaagcta aatatcttgg tgttcc 446

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<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B6

<400> 51553

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gtatgaataa cttggagatc gaccgaaaaa ttacatgcat gtaagtagaa ggggttaata 240
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tggaactgt actttaagtc attatgttct gtgctcttag gggaacatgg ctcatgcgct 360

taaccttcaa taaagactgt aaagatgagt acgtggatcg gaaaaataaa gagcttggaa 420
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<210> 51554
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-A10

<400> 51554

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gctcagtcga ttcggtggaa ggcacaggtg catgacagtg aaccagaatc aggcagtacc 300
gagaaaatac ttgtggctac caaacattt tggaagctgc cactaacaaa acaataggct 360
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<210> 51555
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G11

<400> 51555

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ctgcttattg gtgattctgg tgttgggaaa tcatgcttgc ttctcagatt tgcagacgat 180
tcttatttgg acagctatat cagcacaatt ggggttgatt tcaaaattcg cacagtggag 240
caagatggga agaccataaa acttcaaatt tgggatactg ctgggcaaga gcgc 294

<210> 51556
<211> 356
<212> DNA
<213> Zea mays

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 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
 43. *Chlorophyll aq* (Chl *aq*)
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 45. *Chlorophyll as* (Chl *as*)
 46. *Chlorophyll at* (Chl *at*)
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 48. *Chlorophyll av* (Chl *av*)
 49. *Chlorophyll aw* (Chl *aw*)
 50. *Chlorophyll ax* (Chl *ax*)
 51. *Chlorophyll ay* (Chl *ay*)
 52. *Chlorophyll az* (Chl *az*)
 53. *Chlorophyll ba* (Chl *ba*)
 54. *Chlorophyll bb* (Chl *bb*)
 55. *Chlorophyll bc* (Chl *bc*)
 56. *Chlorophyll bd* (Chl *bd*)
 57. *Chlorophyll be* (Chl *be*)
 58. *Chlorophyll bf* (Chl *bf*)
 59. *Chlorophyll bg* (Chl *bg*)
 60. *Chlorophyll bh* (Chl *bh*)
 61. *Chlorophyll bi* (Chl *bi*)
 62. *Chlorophyll bj* (Chl *bj*)
 63. *Chlorophyll bk* (Chl *bk*)
 64. *Chlorophyll bl* (Chl *bl*)
 65. *Chlorophyll bm* (Chl *bm*)
 66. *Chlorophyll bn* (Chl *bn*)
 67. *Chlorophyll bo* (Chl *bo*)
 68. *Chlorophyll bp* (Chl *bp*)
 69. *Chlorophyll bq* (Chl *bq*)
 70. *Chlorophyll br* (Chl *br*)
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 74. *Chlorophyll bv* (Chl *bv*)
 75. *Chlorophyll bw* (Chl *bw*)
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 77. *Chlorophyll by* (Chl *by*)
 78. *Chlorophyll bz* (Chl *bz*)
 79. *Chlorophyll ca* (Chl *ca*)
 80. *Chlorophyll cb* (Chl *cb*)
 81. *Chlorophyll cc* (Chl *cc*)
 82. *Chlorophyll cd* (Chl *cd*)
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 84. *Chlorophyll cf* (Chl *cf*)
 85. *Chlorophyll cg* (Chl *cg*)
 86. *Chlorophyll ch* (Chl *ch*)
 87. *Chlorophyll ci* (Chl *ci*)
 88. *Chlorophyll cj* (Chl *cj*)
 89. *Chlorophyll ck* (Chl *ck*)
 90. *Chlorophyll cl* (Chl *cl*)
 91. *Chlorophyll cm* (Chl *cm*)
 92. *Chlorophyll cn* (Chl *cn*)
 93. *Chlorophyll co* (Chl *co*)
 94. *Chlorophyll cp* (Chl *cp*)
 95. *Chlorophyll cq* (Chl *cq*)
 96. *Chlorophyll cr* (Chl *cr*)
 97. *Chlorophyll cs* (Chl *cs*)
 98. *Chlorophyll ct* (Chl *ct*)
 99. *Chlorophyll cu* (Chl *cu*)
 100. *Chlorophyll cv* (Chl *cv*)
 101. *Chlorophyll cw* (Chl *cw*)
 102. *Chlorophyll cx* (Chl *cx*)
 103. *Chlorophyll cy* (Chl *cy*)
 104. *Chlorophyll cz* (Chl *cz*)
 105. *Chlorophyll da* (Chl *da*)
 106. *Chlorophyll db* (Chl *db*)
 107. *Chlorophyll dc* (Chl *dc*)
 108. *Chlorophyll dd* (Chl *dd*)
 109. *Chlorophyll de* (Chl *de*)
 110. *Chlorophyll df* (Chl *df*)
 111. *Chlorophyll dg* (Chl *dg*)
 112. *Chlorophyll dh* (Chl *dh*)
 113. *Chlorophyll di* (Chl *di*)
 114. *Chlorophyll dj* (Chl *dj*)
 115. *Chlorophyll dk* (Chl *dk*)
 116. *Chlorophyll dl* (Chl *dl*)
 117. *Chlorophyll dm* (Chl *dm*)
 118. *Chlorophyll dn* (Chl *dn*)
 119. *Chlorophyll do* (Chl *do*)
 120. *Chlorophyll dp* (Chl *dp*)
 121. *Chlorophyll dq* (Chl *dq*)
 122. *Chlorophyll dr* (Chl *dr*)
 123. *Chlorophyll ds* (Chl *ds*)
 124. *Chlorophyll dt* (Chl *dt*)
 125. *Chlorophyll du* (Chl *du*)
 126. *Chlorophyll dv* (Chl *dv*)
 127. *Chlorophyll dw* (Chl *dw*)
 128. *Chlorophyll dx* (Chl *dx*)
 129. *Chlorophyll dy* (Chl *dy*)
 130. *Chlorophyll dz* (Chl *dz*)
 131. *Chlorophyll ea* (Chl *ea*)
 132. *Chlorophyll eb* (Chl *eb*)
 133. *Chlorophyll ec* (Chl *ec*)
 134. *Chlorophyll ed* (Chl *ed*)
 135. *Chlorophyll ee* (Chl *ee*)
 136. *Chlorophyll ef* (Chl *ef*)
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<213> Zea mays

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<213> Zea mays

<400>	51558
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22088

<400> 51561

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cataactttc gacaatgtcc gtgctgggat tgtgataaag gttgactaca acgagcacgc 180

tgatgatgga tacgaccgga ctgccttccc agacatcaca agcatatcat tcaagggaat 240

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<210> 51562

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H12

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cccatgattg accaggggtga aaaggatgac aagataatag cagtatgtgc tgatgacct 180

gaataccgtc actacaacga catcagcgag ctgtctcctc accgtctgca agagatcaag 240

cgcttctctg aagattacaa gaaaaacgag aacaaagaag tcgcagttga tgcattcttg 300

cccgcgacaa cagctcaaga agccattcag tactccatgg acctgtatgc ccagtatat 359

<210> 51563

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H2

<400> 51563

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tattagttgt aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaaataa 180

gaagttacat ttccaaaaaa aaaactaaga tatacaactt atgaat 226

<210> 51564
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H3

 <400> 51564

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa gaaaaccttt 180
 attaaactga aattaat 197

<210> 51565
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H6

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 agcggcgctc gcgtggcgct gatgggtgtg atgcggccgg agctcgtcat gaagtccatc 240
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<210> 51566
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H8

 <400> 51566

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<210> 51567
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H9

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 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D8

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 caaattgcag cctgccagta aaataccaga aatcagctca caaagcaatg ccagaatcac 240
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<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E10

<400> 51569

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<210> 51570
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E11

<400> 51570

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tgatttttaa ggttaaggc 379

<210> 51571
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E12

<400> 51571

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 aacttcagtg ttgtgtctgt ggacgaggct caaatttctg ctaacctcat caaacatggg 180
 ccattggcaa tcggcatcaa tgctgcctac atgcagacat acatcggagg cgtgtcatgc 240
 ccatacatct gtggcaggca ccttgaccat ggtgttctcc ttggtggata tgggtgcttct 300
 ggtttcgccc ccattcgctt gaaagacaag ccttactgga tcatcaagaa ctcgtggggc 360
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<210> 51572

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E4

<400> 51572

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 gaagacaagc actacttgat ggaccatcct ggattggtgc ctgttaccac tgcacagggg 120
 gaggaacttc gtagacaaat tgggtgctatg tattacattg aatgcagctc aaagacacag 180
 cagaatgtca aagctgtggt cgatgctgcc atcaaggtag taatccagcc tccaactaaa 240
 ataagagaaa agaagaagaa aaaatcacgc aaaggatggt ctatgatgaa catcttcggt 300
 ggaagaaaaa tgctatgctt caagtcctga atggttcaag ggggtcttac a 351

<210> 51573

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-E5

<400> 51573

cgacaccatg gacgagaacc tcaggaggga gctgttcggg ctgccgtcga ggtgcgggga 60

ttcactacct tttctgatta ccttgctgct

389

<210> 51576
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E8

<400> 51576

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gatagctctg gcgtagataa ggcaaaaaat gattctgatg ataagaatgc tgctgatgct 120
gataaaaggg cagctaataa aactgagaga tctgaaactg cctctcctga taagaggaag 180
gatagagagc atgataagga caaacgggac aaagatcttg aaaggcatga ccgatgaacgt 240
gaaagagtac ggagggatag agagaaggat cataagcata gagaagctga taggctctac 300
agggatcgcc ttaaggagtg ggaatctagg gaaagagaga gagaatatca aaagtatatg 360
gaaaag 366

<210> 51577
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-012-Q1-K1-F1

<400> 51577

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actaccaggc ctctctgctc gccctcaacg ccgggtcgtg cgggtacggc tccttgggcg 120
cgctccctcaa cggcggcctg ctgcccgcag ccagccccga gctgtacagg ggcggcgctg 180
gctgcggcgc ctgcttccag gtgcggtgca gggacagcga gctgtgcagc gccgncggcg 240
ccaaggtggt ggtgacggac caggcgcgga cgtcgaaccg cacggcgctg gtgctgagcg 300
ccgcggcgta cgcg 314

<210> 51578
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F11

<400> 51578

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ggtgctgact cccggcgagc agggtaacat tttccttcag ccatgggcaa ggggaagact 120
cacatcaaca ttgggggtcaa tggaca 146

<210> 51579

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F2

<400> 51579

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ggcgagctcg ctgctcctcc ggccgcgcgc gtcctgccca ccccatccga ttcctagctc 120
cagccgcccg ccattgccag ctccgcgtgt acaactacag gggagcatcc aggagaagcc 180
gggccttccg gcgaaaagcg acggcgagcg gaggcggccg gctgggacgc ggctctactc 240
gctggcgccc taccctctgc tgctggccgc gctgctgccg ggagctgagc cggtgacggc 300
cgtgttcgcg ccgttcgtgg agctggtgaa gacgtgggat ctcccggct ggctcgtgca 360
c 361

<210> 51580

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D7

<400> 51580

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cctatgctcc agtcactctc gctgagaagg cctaccacga gcagctgtct gtggccgaga 120
tcaccaacag cgccttcgag ccatactcca tgatggccaa gtgcgatccc cgccatggta 180
agtacatggc ctgctgcctc atgtaccgtg gtgatgtggt cccaaggat gtgaatgctg 240
ctgt 244

<210> 51588
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C8

 <400> 51588

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 ccgcaaactg gcaagcatga aagcaggcta ctgcacaaa accgcttcac ctttcgcgga 120
 catgctggct tttcgcaagg tcaaggcaag gcttgagggt cgtcttcgct tactgatttc 180
 aggaggggct ccgttgagta atgagatcga agagtcatg agagtgacca cctgtgcata 240
 cttcatccaa ggctatgggt taacagaaac actgggacct agcactgtct gctacatcga 300
 cgacatggcc ctgggt 315

<210> 51589
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C9

 <400> 51589

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 ccagcaaagt attttgctaa gctcttacga aaggccatga aagggttagg cactgatgac 120
 atgacactta taagggtggt ggtgacgagg accgagattg acatgcaata tatcaaggca 180
 gagtacttga agaagtacaa gaagccatta gctgaggcta tcaactccga gacatcagga 240
 aactatcgga cgttccttct ttcacttggt ggtcatggcc attaggctat gtttcgacca 300
 tgggacatga tatttctatc gatccaccct aaatgcagcg acctacctgg aaaacttatg 360
 atgttgccat ttatctgtcg tgactcctgg atctaactgc cacatatcac atatgcggtt 420
 cctagtatgc ttg 433

<210> 51590
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D1

<400> 51590

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atgaaaccag taaaagaaaa gcttgtgttg tcctgtcgtg gcagggccgg tggcgggtgag 180
cgggcccgga cctccctgct ttctggggcc tgccgggtcgg gtcagttgcc ggaaatgccc 240
ccgtggtaga ctagtagact gtagaccgga gcaaaatctt ggacttgacg atggcgtgga 300
agaacaccaa gaaatcaacc ccacagctgc tttgttgtcg ggtcgggtcg gatccatctg 360
cgggtactac ctgcgtccag ctattcatat gtacgtgtac aggtttattt atttacatac 420
aacattt 427

<210> 51591

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D10

<400> 51591

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gccccccctt gtagatagta ctctgctatc tcgtcgtgat cgtgagtggg gattctgtct 120
ggttgatatt tgctactgat attgggtcca tttagatat gcgttgctgc taaaaaaaaa 180
aaaaaaaaaa aaaaaaata agaaagaaaa aaaaaaatat aagagcatac tgaaaaaaaa 240
gatgaaaaga tctaaaactg cttt 264

<210> 51592

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D11

<400> 51592

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ccttccttgc cccgttcacg agagaatttt ctggagtctt cgactcgagc agggttccga 120

tggcgctgca atggatgac ctggcgctgcg tggcggcggt ggaagctgcg gtggctgcgc 180
 tggtcacgct cccggtgccc cgcgctgtgc ggggccagat cgtcgcgctc acgtccttgt 240
 tcctgcagcc cctgtccagt gtgataccct tcgccgccgt tcagatcctc gatctctact 300
 ggaagatgga gcacagactg atgtgc 326

<210> 51593
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-012-Q1-K1-D12
 <400> 51593

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 agaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaat 120
 aaaaaaaaaa aaaaaaagtg tgatatcttt ttagagtttc aatgttttaa tgatgttaaa 180
 tataaactaa tcacttttta ttgcgtaac taaatttaaa ttaatttgcg gttgtttaaa 240
 aaatttgta attggaaaaa ctttgagttt acaaaattta accgctttta aaaaattcca 300
 tttttactga attgaggtat taagaaaaat gcccaaattg ttgactttta caaaaatttg 360
 accaattta 369

<210> 51594
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-012-Q1-K1-D4
 <400> 51594

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 ggcgctgccc aggggcgagg ccatcggcgg ctacatcttc gtctgcaaca acgacaccat 120
 ggaggagaac ctcaagaggc ggctcttcgg gctgccgtcc aggtacaggg attctgtgag 180
 ggccatcagg cccggcctgc ccctcttct ctacaactac tccacccacc agtccacgg 240
 catctttgag gctgcaagct tcggaggatc caacatcgat ccagcagctt gggaggacaa 300
 gaagtgcccc ggcg 314

<223> Clone ID: LIB3079-012-Q1-K1-A4

<400> 51597

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gtagagtttt agcaggggaa cagtcgcgcg cgttccagct ccagggtgaa gtgttccatc 120
tcaagcagag gctgcagata ctggagggaa gatcaggaac acccaacaaa caaccgctat 180
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ccacccccca atgtaaataa ttgtgtggcg agctttatgg taccatgtta gtacatgcgc 300
tgatgttgat ctgtaatttt gcaggatgg taaaactatt aatagctgac ggattgaacc 360
atgctaatat gtggagatat tgaactgtaa ttgacagga catggtaaaa aaataaaaatg 420
tgccagctct 430

<210> 51598

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A6

<400> 51598

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atagttatag caagggaaca gacacgcgcg taccaactcc atgatgaaat gtaccatcat 120
caagcaaaaa gctgcaaata ctgcagggaa gatcaggaac acccaacaaa caaccgctat 180
aggctatagt ggtcacattt ctacatttct gcacatcgat cgttacaggt ttgcaacccc 240
acacccccca atgtaa 256

<210> 51599

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A9

<400> 51599

aaaaaaaaa caataacaaa aattttaaata ttaaacaaaa aaaaaaaaaa aaagtgaata 60
cttaaaactaa taacaaacaa ccaacataaa aaaaaaaaaa ctacactcta aaataatact 120

accaacaata cacatcctca tccttaactg accttttcta ctccctcttc ttttttactt 180
 tccctacatt atagtattca tatctatcca cctctctcca tacatctaca tcttatatct 240

<210> 51600
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B1

<400> 51600

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 ctgctccgtc ctactcctga acaggaagct gctgcgagtg tctttggaga tgtgcttcca 180
 gaatgtttga acaggcatgg cgagaagtgg ttgtcatcaa tagttagtta cttagtttac 240
 acgtcttgca ggaatttcag gttttattga tggagaaacc ttcagaatac agtagcaacc 300
 attactacac tacagaagag tttagcatat acaagggggg agaaatagta caccatagac 360
 atagactagc acactattta caaattcaat atc 393

<210> 51601
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B10

<400> 51601

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 tggatttgaa catttagctg ctgagaagaa acgcaacagc actgaaaatg aggggtgaata 120
 taaggatccat cgttctgaat caactaagag tttgtctgca aaagcttata gtagcagcta 180
 tgctgttgtc gcttcagaag atgaggatgt ctgccctact tgcctggaag aatacacgcc 240
 agacaatcca aaaataataa ccaagtgtg taccatttt catcttggtt gtatttatga 300
 atggatggag agaagtgata catgcccaat ttgtggtgaa gaaatggagt tttgagagag 360
 cccatgatag cctttcgggt tacatgatct cacatgaagt ctgagct 407

<210> 51602

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B11

<400> 51602

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tagaatgctc aatatccagg caaggagatt tttatgtgat aaatggaagg aagtgggtgga 120
ccagtggagc tatggatcct aggtgcaaaa tcctgatatt aatgggaaag acagattttt 180
ctgcacctaa gcataagcag cagtccatga ttttagtgga catcaacact cctgggggtgc 240
agataaagag accattgtta gtcttttggtt ttgatgatgc acctcatgga cacgcagaga 300
ttacatttga aaacgtgcgt gttccagtaa caaatatcct gcttggagaa gggcgtgggtt 360
ttgagattgc tcaaggaaga cttggtcctg gaaagttaca tcattgcatg aggctagtag 420
gagcagcaga acg 433

<210> 51603
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B12

<400> 51603

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ctcctgatgc tatgcatcct atgcccataa ttgtcattta tactgcacta accgattgtc 180
gccacctac acataagtca gcagtgcaca aacgttgctc aatctatact cgctgcagc 240
atatacatc tccattgcta cgttgtctac ctgttgatgc acctcatgac ccaccctcaa 300
ttacattagc caacggacgt gtaccactaa taaaaatcct aataggacaa gcacgtcggtt 360
atcagattgc tcaacggaca cttctggctc gaatgctaca tcattctaata aggcatgctg 420
taccagtac 429

<210> 51604
<211> 374
<212> DNA

51604 51605 51606

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B2

<400> 51604

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ccaccagtca tgccattggg taccatgaac ccatgcatgc agtactgcat gatgcaacaa 180
gggcttgcca gcttgatggc gtgtccgtcc ctgatgctgc agcaactgtt ggccttaccg 240
cttcagacga tgccagtgat gatgccacag atgatgacgc ctaacatgat gtcaccattg 300
atgatgccga gcatgatgtc accaatggtc ttgccgagca tgatgtccca aatgatgatg 360
ccacaatgtc actg 374

<210> 51605

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B3

<400> 51605

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tccgccgcgg cggcagcagg aggaggagga ggagggatag ggtagccgg ctgtggcggc 120
gcgttgacgg agcgcggaga cgaggtggag gaggccgacg cggcggaccc ccgcgggagg 180
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gcgagctccc gcgcctgaa ccgcgccggg ttcggggcct gcgcctcgtc ggccatggcc 300
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<210> 51606

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-B5

<400> 51606

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gcccctg

307

<210> 51609

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B8

<400> 51609

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ggtactctgc tgaagaaaag accaattggc ctgaagacta aattgtccat cttcaattgc 120

accaagagaa aggatctcca ttgcactggt ggctggtgca tgtttgaggc ttggatgatg 180

gcagaagtgt catgtttttt tatgttgaac cttgtttcta aatagtaagt ctagacaatt 240

gttctgtttg aaatctgaat gaattgtggc tggttgttgg tggactggat tacaggcaaa 300

ataaaaaaca 309

<210> 51610

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B9

<400> 51610

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gatcaaccga attggtcttc agtatcatgt ttgaagactg ctgctgatgc tgcattgtca 180

atgtatactt tgtctctaaa tcgagaagct acaccaaadc ttattgtgtc atctgagaga 240

tcagtcaagt caatgactga acagcagtta gatgaaaaca gtgaaaagca tgaagaaaat 300

agtggaaggc ttgaagaaca tgggtgaaat cctgttcaaa cttcctatga tcaaattgtt 360

aatggctgca gtggaagagg gaatagaaaa ttctgcagtg gaagaaggaa aggaaaagga 420

aatgataag gaaaa 435

<210> 51611

<211> 366

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C1

<400> 51611

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 gtctctatcc cgactgatca tgaatctggg gcaataaaag gaatggctta catagacttc 240
 aaggatcagg actctgtgtc taaagccctt gagctcagtg gctctgacat tgggtggtggc 300
 tatgagcttt atgttgatga agccaaacca agaggcgatg gccaacgtgg tgggtggtaga 360
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<210> 51612
 <211> 87
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A2

<400> 51612

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 acagcggaat gcatgagtag ctactgt 87

<210> 51613
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G5

<400> 51613

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 ggggagttac tgcgccttct ctaacagggg tggtttggtt catccccata catccgttga 240
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aggaagcgag gtcattgctg caggcatgac agtgaacgac tggactgcct ttgtggcttc 360
gacacgac 368

<210> 51614
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G6

<400> 51614

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ggccttgagg tggcgcccaa cgcgcgggag gttctcatcg ggctctacac gcgtacgctc 180
aaggagatcg atgccgtccc caaagacgag ggctaccgca aggccgttga gtccttcacc 240
aatcaccgcc tacagatctg acaggaggag gacgactgga agcgcatcga ggaccgaatc 300
ggatgcgggc aagtcgagga gctcatcgaa gaggccgagg acgagctgaa gctcatcgcc 360
aaaatgattg aatgggatcc gtggggtgtc cctgatgact acgaatgtga agtgattgaa 420
gacgac 426

<210> 51615
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G7

<400> 51615

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gggaaatccc aagctgctcc acaggcccga gggtcggtcg tcctcatggc ggggatcctg 120
gcgtggggcg ctgacgtggt cggccggggc ggtgtcatcg acctct 166

<210> 51616
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-G8

<400> 51616

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ccgcgttcgc cgctccattt gatcgaattc ccgatggcgc ccaaggccga gaagaagccc 120
gcggaaga agccgacgga ggagaaggcc gagaagaagc ccagggcgga gaagcgcgtg 180
ccgggcaagg agggcggcga gaagaagggg aagaagaagg ccaagaagag cgtcgagacg 240
tacaagatct acatcttcaa ggtgctcaag cagggtgcacc cggacattgg tatctcgtcc 300
aaggccatgt ccatcatgaa ctcttctatc aacgacatct tcgagaagct ggctgccgag 360
gccgncaaag ctgcgcgcta caacaagaag cccaccatta acctccggga gatccagact 420
tcggtgcgcc tcgtccttcc tggcgagc 448

<210> 51617

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H1

<400> 51617

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catggctagt ccatatatat tgcttcttgc ttctttcttc ttgctactgt cattctgggt 180
tgacctgtgt catcagacaa atgatgaaga cgaagaagat ggaaggagtc agagtcacca 240
tgaagcttta ctagacagaa caaaagcgaa acctggcatt catcctgtta atatccgtca 300
gaggtgttgc ccaggaatac agcttggaag ccggcaaaaa tttgtgattt tgggtgcttct 360
actgtcattt gttgttatgc ttgcctttgc catcctcata tgggttggtga gaagagacaa 420
tcctatcgat tcttctctac tgaaaagggt ttatttg 457

<210> 51618

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-H10

<400> 51618

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gccccacatc caccgcgaat aacaacgaca aaaacgacat ggactttaag ttaattttca 120

aagatttcgt aaaaaagtta attttcaaag gtataatgat agtggtataa ttactttcta 180

ccttcgtgga ttgtatgctg catgttatat tttgtctcag gattgtgcgt attacgtttt 240

gacttgatgc tgtagatgct acaacagcaa cctccacgct taaaaatata tacattgtta 300

tgcgctatcc tttgaaactt tataatcaca ttatctttac aactaattaa gtactcattg 360

taggcgtncac cacgccgcga gctcggggcg ggacagcctn cacggtggcg gggtcacgct 420

gaacagggag 430

<210> 51619

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H11

<400> 51619

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agtgtgtgtg tcatcctcgg tttcagcaga cccatgcac aaacagcatg gactgcggat 120

cgatggatgc tgttaccccc gtcaggcttt attctaagtt aatcttaagg aaaaaatggt 180

gcttcttggt gctgc 195

<210> 51620

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H12

<400> 51620

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gtcaagtacg gcgcgggcat cggccccggt gtctacgaca tccactcccc caggatcccc 120

tcggctgagg agatcgccga ccgcacgac aagatgctgg cgggtgctgga caccaacatc 180

ctctgggtga accccgactg cggcctcaag acccgcaagt acacggagggt caagcccgcc 240

ctgaccaaca tggctccgc cgctaagctc atccgcaccc agctcgccag cgccaagtga 300
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aataaacagg gctgtgccc 379

<210> 51621
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H2

<400> 51621

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aactatttca gcagataaaa ttgctccaac agtcactcct ggaagcctta agcttccgaa 240
tgggtgtagca aaaccacact cagctccttt agctgatttg cttgatttca gttctgatgg 300
tgccccagct tccaccgttg cttctactac aacacctaata gattttttgc aagatcttct 360
gggtattggt ggagttagtt catcaacgac aggtgtaact tcaaccgcaa gcacagatat 420
tcttatggat cttctgtcca tgggatcatc 450

<210> 51622
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H3

<400> 51622

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cggacatcgc gttgctggtg gcggagcagt tcgagaagac ggcaaggcga ggcgcccccg 180
gcggggacag cggcagcagc agcgggagcg gcggcgagac aaggaaacttc ggggcccgtgg 240
ccaagggtgtg gagctcgtgg gtggagtccg ctttcgccgc cgcgtccggg gtcagattca 300
ccgtcgcggt gcagctggag cccaagaccg ggctcgcgct ggccgctgcc gacggcctct 360

tctccgccta gcttcctgcc tgcctccatg tctttctcct gagcagtgcc agtgatcgag 420
cgagtcctgc tcctgcaccc cgtactatg 449

<210> 51623
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H5

<400> 51623

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gtgatgtgcc tgctgaatag ttccatagtc ttgcatacac tgctgtgcta ccacatgaca 120
tgatgtactc gtgtgtgtgc tttggttggt gtgtaattcc atgaccatga tcagtaatct 180
gaataaaaaa tattggagat gtgcttgctt cct 213

<210> 51624
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-H7

<400> 51624

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tgatgcctct cagcctataa cattgatgac agtgactagt gatactagt atcatgctgg 120
cgaatgctag acgtcattac catacagcag gccagcagcc agtaaggagc tccactttgg 180
cagcctgcca ctctgcttct tccactcctg aaaccgagcc tgcaggtgca ggcaatgcgg 240
ttgcttgctg gagtccttat ccaatcagtg aaggcactaa actcgcaaag ccgttggaat 300
ctgcgagcaa ggtcatgcac atcttggttg atgaagttaa tacagcctgc acttgaactn 360
ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg aggggtcaaaa tcttc 415

<210> 51625
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H9

<400> 51625

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gtatgagatg taaagctcag cccgtagttt agatgtaaag ttttgtactg agtataaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaata aaaaattata aaaagaaaac 240
taaaataaat taa 253

<210> 51626

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-A1

<400> 51626

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gattcctcat gcgtggcgcc caaaacctag agatcctttt ttgcgcccga aaccttcctg 180
agctggtccg attcgggtgcc gttagagggg atctgtgtac ctgcgcgtcg gccggcgctg 240
tcgatctggt tgtcttccac ggatggtttc cagacggtga ctccgncggc gcggcgcggc 300
gc 302

<210> 51627

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A10

<400> 51627

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agcgccgcct ggtcaacaga tttttgccct gcgctgtcac tccaccacgc tgcttgtact 120
gaaagctttt tcccagaata aaggctgggg aggaggaagc ggcggcgggc gcgctctcag 180
aagagagggg gagatgaaga ctcgagctc agcgagaggg gagccgaggc gtctcggaaa 240

tgcggtcttt ctggcgctca tgctctgctc cgctcgctcg ctctacctca tacgggggag 300
attcgcccca attggagatg ccatcaaat 329

<210> 51628
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A11

<400> 51628

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acaaacacaa gctcatgaca ttattgatcc gtgctatgac ttgacgcaga tgatagaact 120
gcatgctctg ctaacgatct agcgacggag actagctatt ctatgatgga gatagtctga 180
gaattacagc ttatcaccag actatgagct tagtccttga gcacacgatc gtgctgtgaa 240
atgcgcgtaa tatagcgtc atactctgct gcgatacgaa a 281

<210> 51629
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-012-Q1-K1-A12

<400> 51629

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gctgctcatt tgcagcagca tatactacta ccatggaacc agctggctgc agcagaccga 180
gcttccttgt tgacacagca actgttagtg cttttctacc agcaatttgc ggctaacccc 240
agaaccctct tacaactaca acaattggtg ccctttgtcc aacttgcttt gacagacca 300
gcggcctnct accaacaaca catcattggt ggtgccctat ttagattgc ttatta 356

<210> 51630
<211> 434
<212> DNA
<213> Zea mays

<400> 51632
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 ctgctcagac ttgggctggg agaatgatac taagacacca gacatcacat ccattgctcc 180
 cattcccact attgctgaag gcgatgagtc tgtatttgtc aactccaatt caaacagctc 240
 gatggtgcct cctgtcctgg agaacaatgc tgttgatctc actgatgggc tgacagattt 300
 ggaatcctat atgaggtttc ttatggatgg cggtgcaagt gattcaattg atagccttct 360
 gaaccttgat ggatcacaag atctttgtag caatat 396

<210> 51633
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-F11

<400> 51633
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 aagaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaatt ttttcaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa acaaaaaaaaaa aaaaaataa aacaacggac accacataaa 180
 aaacacaaaa ttcccactat tagctaaacg caatgaaact gtattcatca acaccaaaaa 240
 aaacagctaa atagcgcctt ttaaaaaaaaaa gaacaatgca aaaaacctca ctgaccacca 300
 aacaa 305

<210> 51634
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-F12

<400> 51634
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 taaggcgagt gaaaggggtg gaaatcagaa agacggccga agatgggaac tgtctattca 180

gagctgttgc tgatcaagtt tatggagatg cagaagctta tgacatggct aggcatgt 240
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 cattatactg caagaggaaa aggagagaca aggtttatgg caacaatgtt gagatccaag 360
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 acatttttca aggaagc 437

<210> 51635
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-F2

<400> 51635
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 cttcgtggtg tacaagagct ggaacttcac cgagcagggc ctccccgccg acctcgtcaa 180
 gaggggcgtg gcggtggcgg acccgttcag cccgtacaag gtgcggctgc tgatcgagga 240
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 gtacctggcc atctactacc acgacgacgg tgcgctgcgg ggcgacgagg agctgcaggc 360
 gtggtggaag gaggtgcgcg aggtccggca cggcgaccac atggacgcgc cctggtggcc 420
 caagatgcan gccgtgtccg aactcggcag cgc 453

<210> 51636
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F3

<400> 51636
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 aaaaaaaaaa aaacaaaaaa aataaaaaaa aatctagcct tttatttgac caaacaata 180

tctatcatta gc

192

<210> 51637
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F4

<400> 51637

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aaaaaagtaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aataaaaaat aaaaaataaa taaaaaaaaa aaaaaaaaaa 180
aaaaacaaaa aaaaaaaaaat aaacaaaata aaattaataaa aaaaacccta caattacaaa 240
aatcaatacc aatag 255

<210> 51638
<211> 272
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-F5

<400> 51638

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ccacactaca tgctccacg gccacaagag aactattatc ctctcccga tgtgccccct 120
gtagaaaagc agccacacta tggaatttct tcatatggac gagatgcacc tncaagtgt 180
ccccagga atcaaaacca agcacatggg tcatctcagg tgacacacag catgcaagtt 240
cctctttcct atgctgatgc tgtgataagg gc 272

<210> 51639
<211> 272
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-F6

<400> 51639

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agaatgtctc cagtgaggcg ctcgaggctg cccgcattgc ctgcaacaag tacatgacca 180
agtctgcagg aaaggatgcc ttccacctta ggggtccgggt tcacccgttc catgtcctnc 240
gtatcaacaa gatgctttcc tgtgccgggg ct 272

<210> 51640
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F7

<400> 51640

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ccattatgac caactataaa aaacacccac actatctaaa cacttaccta aatcaacatt 180
ctactacaat tacctactct acaaataaca acccatcaca tccttcatct cagtttactc 240
acaaccatct acttcctatt 260

<210> 51641
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-F9

<400> 51641

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gcatcgaaag gtgctaactc tggcactgca agcttcaagg caccaggtgg tacttataga 180
agctcatttg aacagaagtc taactatcag acacctgcat cagctttgta cggggcatat 240
gagggtagtt cttccaagg aagctcttct agttatggtg atcatacagc tncaccatca 300
gatcctgtag cattgatgga attctatgca aagaaggctg cactggaaga acggaagagg 360
ccaccaaggc agtcgaaaga tgaaat 386

<210> 51642
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G1

<400> 51642

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tgtacggatt gtccgagata tccctgactg gttcacagag aaggatgagc tgtttactag 180
tataaagcgt actgtgaaga acatcccaaa gtatgcttca gcacagtttt atattgataa 240
tgtacttcca aggatcaaag agaaaaggat aatgtctatc aagccatttg tggacagatt 300
ggggtatgat aatgtaccaa cagagattaa ccggctgaga tgcagagtta actatcatgc 360
attaaagttc ctacctgata ttgaagaaat ggctgttaag cttgctgcaa gaatgaagaa 420
caaaactggc agcataaatc catacat 447

<210> 51643
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G10

<400> 51643

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cttgatact tgcctactgg atggtgtctt cttctgattg gacaagcatg ctcaccattg 180
attaggagga ccctgctgtg ggactccatc atggagctcg gaaggtcata cgagaatata 240
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ttccagacac ggctgctgtt taaccaggca tttagccggg gcctccagat ctcaaggatc 360
cttgctggtc aaaaggatgt tagcgagttc gagttcaagt gac 403

<210> 51644
<211> 349

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-G11
 <400> 51644
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 tttcaaactt ctgcttattg gcgattctgg tgttgggaaa tcatgcttgc ttctcagatt 180
 tgtccaccat tcttatttgg acagatatat catcacactt ggggttgatt tcaaaattcg 240
 cacatttgaa caagatggga agaccataaa acttctcatt tgggatactg ctgggcaaga 300
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<210> 51645
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-G12
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 tgctttgcaa gaatagtcga aggtggcttc ctcatctctt ttgcaatgca aaattaatct 180
 cagctgttga tagactggga aaagagaagg agggttttat tcatcaatgt acagaagcat 240
 ttgtgcagtt ggttgcttcc ttggtccctg gtattcttga cactgtctcc agtgatatac 300
 aacaggttat ggttggcaaa cgccatggac ctgttactgc tttagctggg cgagctcatc 360
 caaagagcac a 371

<210> 51646
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-G3
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463

<400> 51651

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<210>      51652
<211>      350
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3079-011-Q1-K1-D6

<400>      51652
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<210>	51653
<211>	395

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 tcggcatgct tcctgtttga agcaagggca acaaacttac cccaccagat ctctgtcgcc 300
 aaagcagggc tagtgaataa gctgtgtttc ctcccgatt gtcactgctt ttatatttgt 360
 gcatttattt tgagggaac attttgcca aaaaaggcct gcagtgcacg ttttaaacia 420
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<210> 51656
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E1

<400> 51656

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 ctgcggggca cgtgcgcgcg ggcctgtcg cgggcggcgc gccggctgcg cccgcgggac 180
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 ggcgtcaaga agtcagtctc ctcatcagca tcactctact cgtcgtccaa gttggagagg 300
 acgaaagcgg cgccggagga tgaggacgag gcggtggaca ggctgatgct gatggagatc 360
 atgat 365

<210> 51657
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-E10

<400> 51657

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ttatgcta

188

<210> 51660
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E3

<400> 51660

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ggctgggctc actgtaacat atggacttaa tttaaagtct cgcattgtcaa gatggatatt 120
gagcttctgt aaattagaga acaggataat ctatgctgag cgcatttatc aatattgcag 180
gcttcctagt gaagcaccat tgattattga gaactgacgt ccaccatcat catggcctca 240
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<210> 51661
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E4

<400> 51661

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tcgtcctacg gagcggcgga gtacatctgc atccagccgt gctgggagct gccgcactgc 180
gacgcctggt gcagggacgc caagtctgcc aagggcgggc actgcgtcga cttcggcagc 240
ggcctcacct gctgctgccg tcggtagcta gggtagctgc gcgcatgcac agatgcaggt 300
gccagagtgc cagtggagaa tggagcgtcg gtctctctct cgtctcgatc gtgtaagata 360
aatatatggc agatgataat gcacaataca aataaacggg agaagaaaaa aaatccaagg 420
atctcgcatt cgttggttcc ataca 445

<210> 51662
<211> 384
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E6

<400> 51662

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tgggagactg atctgggacg cgtccattgc cgatagagac ttgcagtagc atccactagg  180
ctgttggaca ctacagggtt aaagtcaaca tatacgaagt agtactagta tctgagtttg  240
gtcgtcgtac aaattgttcg tgagtgggtga gccagtttat aggcttggtt ttcttttggt  300
ttcagctatt aacttgaact tcttggacaa gttaagggtt taaggggggtg gatgatagat  360
cccgaaaggt gcaattgaat tacc                                     384

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<210> 51663

<211> 305

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-E7

<400> 51663

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cgctggccta cgacgcggag aagctgtgcg gcgtgaagcg cgcggaactg aggggcggcg  180
tggggccggt cgggctgtgg gtgctggcct tcgccaaccg caaggagaga accgccgtgt  240
tcttcagggt gttcaagccc gccgncggca gcgacaagcc cgtggtgctc atgtgcaccg  300
accct                                             305

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<210> 51664

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D10

<400> 51664

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 ctgctgggca tggcgtcggc ggcgacctac aacgtcggcg agccggcccg gtcctgggac 180
 ctgcgtacca actacggcac ctgggtctcc tccaagaggt tccaccggg tgaccagacc 240
 gtgttcaagt actcgcccca ggcgcacgac gtggtggagg tgaacaaggc ggactacgac 300
 tcctgtcaa tcgccagccc cgtcgccacc cacaactccg gcaacgacgc catcgccctg 360
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<210> 51665
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B4

<400> 51665

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 ggtttggaaac atgatgaaca tgcgaatttc gtggt 95

<210> 51666
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B5

<400> 51666

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 aggtcactgc ggccctggga gaacacttct cagttcagcc cgtggatcta caagcagttc 180
 tttccggtga tgaaggatcc gtgccttcta caaagctgct gtcacaacag gacctagaaa 240
 gaaattgttt cgtccaaaga atcccttaac aatatagaaa gttgaagcgt gaccatgctt 300
 gtcgtttttg ttgtgaaata tgagcagttt tgtcgagctg tgaattcatt caaacattat 360
 gggcaacca gtacgtacat acgaatgcc accaccatct ttaagtac 408

<210> 51667
 <211> 362

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ctagaaaatg gagaaccgca gcaagactaa ttacgttcga aacatcaagt gatgctcatg 180
ttgggtcttt tgctccagtt gttagtcac aacaaaacta gacacctttt gctggtcctc 240
tttttggggg tgtaattgga tcgtgtacca agactagcat catttgcagc aataatacta 300
gagtagtaag attttgaatt taaataactt atgtcgggcc cttctttcag tattatctat 360
gtcaaatcat cgttcaagtc tcttttcttg aggaccagac cttgtttttg gttccatgcc 420
gtgggggtctt tctttgg 437

<210> 51670
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-011-Q1-K1-C10
<400> 51670

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gtttgagcca ttccattct gcagagtttc tgctgctcta aaatgtccgt ctcgctattt 180
cattactgct tgtcgaagtt ccccatctgt gcatggcata agcgcttgaa taaaatgttt 240
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atgaggcaaa ttgtcttacg ctgtacttga tgaactctgg agtattatca ctcgtcaggt 360
tgaaaacggg aactatacaa tgtaatttca gcacagatta 400

<210> 51671
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-011-Q1-K1-C11
<400> 51671

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gaggttatgt ctatgggtgac ggtcctcaca ctgaggtcac cagaaaatgc agcacgtgca 120
atggaagaag gctatgggac actgggtata cagtcaatgc aaagggtccc ctctccgtg 180

cagactcaga agcaagcatg ccttatgatt cgcaatcttg ttgcccgaaa ccctgagaat 240
 aggatcgtcc tgcttaatga tgggtgcagaa aagcttatta gaaaggcaat ggcgctgcac 300
 agaagctgta aagatgctgc ttcgtctgcc ttgagggacc tgggcctcga caactacaat 360
 gcatagacac cagtgaccag tcacaccata gaaaatgtgc gtcgagttag tttggtagcg 420
 gtagaatgtt ttgga 435

<210> 51672
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-C12

<400> 51672

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 ccaaacattg ctagaggcat agcgaaattc aatgttccat tggcacatat gatgtttgct 120
 gggctctgact tcattattgt cccaaattcc catctgttca tcacctggag gacttgttga 180
 cacggttgag gaggggtgtc accggattcc acatgggttc tttcaatgtc gagtgtgaaa 240
 ctgtagacct agctgacgtg acggcagtag cgtcaaccat cacacgggcc tagaacagta 300
 cggcaccctg gcgttccaag aaatgggttca gaactgcatg gcgcaaaacc taccctggaa 360
 ggtgcctgcg aagaagtggg aagaagtgtc tctgggcctt tgagtcnagg ggagtcaaag 420
 ctgca 425

<210> 51673
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C2

<400> 51673

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 gtgatcctcc atctctaccc ctctctcaag ggtctcatgg gcaggcagaa ccgcacgcca 180

acaatcgta tcgtttggc catcctcctt gcgtctatct tctccttgct gtgggtgaag 240
atcgatcctt tcattcctccc gacacagaaa gctgccgcct tggggcaatg tgggtgtgaac 300
tgctgatcca gattgtgact cttatctgaa gaggctcagc caaagatctg cccctcgtg 360
taaatacctg agggggctag atgggaattt tttgtttag atgaggatgg atctgcatcc 420
aagttatgcc tctggttatt agcttcttc 449

<210> 51674
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C3

<400> 51674

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ccccgtttc tttcttttgg gtggttctaa gctttaacta actggaggaa gaaagattca 120
gttagaacgc 130

<210> 51675
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-C4

<400> 51675

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gtgaccatga gagcaacatg ggcggaggac acgacatgca cgggcagcac tacggccaca 120
acggcggcgt gaagggttc gtgtccaacc tcgtccacgg cggcggcggc catggccatg 180
gaagcggcta cggccatggc catggaaacg gctacggcca tgggaatggc ggctacggcg 240
gcggccacgg gtaccctcct cccgccgccg ccggcgcgta cctcatccg cacggcgcg 300
accctacccc gcacggcggc cacgggtacc ctntccccgc cacctacccc gcgcactcgg 360
cgactacgg gcacacgggg tcgtaccaca ccagccacaa cagcta 406

<210> 51676
<211> 429

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 ggcatatcgg gtgaaatgga acaaatcacc accaccacac caacaatcgc aagactcctt 180
 ggagcaggag gcatatcggg tgaaatggaa caaatcacca ccaccacaac aacaaacgca 240
 agactctttc gagcaggagg catatcgggt gaaatggaac aaatcaccac caccacacca 300
 gcaatcgcaa gactccttcg agccggaggc atatcgggtg aaatggaaca aatcaccacc 360
 accacaccag caatcgcaag actcctttga gcccaaggca tattgggtgg gatggaagaa 420
 acatgcgcaa ggagcaacgg ac 442

<210> 51679
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-C8
 <400> 51679

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 cagctcagga agatccagca aagcgacata ccactctcct atcatctggg ccttcttggc 180
 atgcctggct ttacagctta tggttgattc tatgagatct gttcaccaaa gaaaggggag 240
 tttgtttttg tttctgctgc atcgggagca gttgggcaaa ttgttggtca acttgcgaa 300
 ctccatggtt gctatgttgt tggaagcgct gggacagatc agaaagttga gctcttaaag 360
 gaaaaa 366

<210> 51680
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-C9
 <400> 51680

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aagtcgtctc tgtacccagc ttctcgtttc gtttgcaccc gtgatggtat ggtttggttg 180
 ttgcccgtcg gacctatcta ttctttgcat ttttcctttg aaaaaaaaaa aaataaaaaa 240
 aagagcaaac aacttaaaga taataacttaa aaacttatta aaatccccct aacgatttac 300
 aaaaaactgt aaaaaaata cttccttttt cttccaacta aaaaaaaaaa aaagggggg 359

<210> 51681
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D1

<400> 51681

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 tcgatccttg tcaactggcgg gagctccctg ttccctggca tgatccctcg gctggagtct 180
 gggatacggc aatatcggcc ctaccttgct ccctgaagc ttgtcggagc agctgacccc 240
 attttagacg cgtggagggg tgctgccgcc tttgcggcat caagcaagtt cggcaaacia 300
 acgttcagcc tagctgatta cggagagcat ggagagaacc tgtttcatcg gtacaacatg 360
 tgttactcac tataaccggg aaatgacata gtgatcg 397

<210> 51682
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B3

<400> 51682

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 tacggcgctg gatggtggca tgcggagccc ggatgcgctg tcgggtgttg ctgccggctt 180
 gaagggagat catcgtctct gggatcggct cacgcttgcg cggtcctca cctagagggc 240
 cgcacggcag tggagcgacg ttgctacgag gggccatgtg gatgcgcaat ggtcctcatg 300
 tgctggcgag tatgttgttc tctggtggtg ctatgcgtcg atcgggtgtt gtcgtcctag 360

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383

<210> 51683

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-A10

<400> 51683

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gccgtgtctg gccagaagtt caacgccatc ttcagcttcg gcgactccat gtccgacacc 180

ggcaacctgt gcgtgaacgg tccccccgcc ggctgacgc tcaccagcc gccctacggc 240

gagaccttct ttggccgcgc cacctgccgc tgctccgacg gccgcctcgt cgtcgacttc 300

ctggccgaga agttcgggct gccgctgctg aagccgtcga agcagggcgg ctacagacttc 360

aagcagggcg ccaacatggc gatcattggc gcg 393

<210> 51684

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-A12

<400> 51684

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aggtgccggc ggagctggtg gcggcgggca gccggacgcc gtcgccaag acgaaggcgt 180

cgcagctggt ggggcgcttc ctggccgact ccgagccggc cgtgtccgtg cagctcggcg 240

accacggcca cctcgcttac tcccacacca accaggcgct cctccgcccc aggtcggttcg 300

cggccaagga cgaggtgttc tgctgttcg aggggggtgct ggacaacctg ngtcgtctga 360

gccagcagca cgggctgtca agcaagggcg ccaacagagt gctcctcgtc atcagggcct 420

acaagacgct gcgcg 435

<210> 51685
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-A2

<400> 51685

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 gaacgacgcg tacaaggaga tgggtggggca gcccgagtgc ccgtggctcg acgccgtggc 180
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 ggtcgctccc atcgatgtac cctgcgacgt cagccggctg cagtgcgagt ccagagagta 360
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<210> 51686
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-A4

<400> 51686

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 gtgaagagcg accaggccca ataaataatc accatggctc atcaaaagcg tgaaggcagc 180
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 caaaaggaaa gcgaagcacc atcggacaaa tgcgtttcag atgggggaatg cgctgcaaac 360
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<210> 51687
 <211> 397

<223> Clone ID: LIB3079-011-Q1-K1-A8

<400> 51689

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cacactgatg tctccatcct gctcgacaac gaggccatct atgacatctg caggcgctcc 180
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g 421

<210> 51690

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-A9

<400> 51690

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acggccagcc gaagccgccc gttggcagca acgtgcgctt ctctgcccc ttgcgggct 180
gcaacaggaa ccgcacacac cgccgcttcc ggccgctcaa gtcggcggtg tgcgcgcgga 240
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cgctctttg 429

<210> 51691

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B1

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 gaataagttc gcctactcct tcattctaata gcccttgctt acatccagca taatcttagc 240
 ctacgtatgc cacatgcact tttacc 266

<210> 51704
 <211> 106
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G12

<400> 51704

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<210> 51705
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G5

<400> 51705

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 ggagggaacc ctgctgtgct tgatagctga aatgaccgat ctaagcaact gaatgctaca 300
 ccttcaggta ggttactaac tgcacttgta tgcgaatact ttgagtgggc gcaactaagt 360
 cacacaatg 369

<210> 51706
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-G6

<400> 51706

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cgaaagagat ctttcaagag acannaaagc caagctggtc gtggaaagcc tgaagcttta 180
ttgcaataca atgctgaaga ggacgcagct ttgcacagag ttgccaagc tgaacgtgcg 240
gcaaaacagg ctgtagaaag agctattcga ctgcgcaaca gagcccagtc tctcatgaca 300
aacgcagagc tcgcagcata caaatccgtc atggctctca agattgccga ggctgctaag 360
atatctgact cgtcccagaga tattgtttgt actatcctcg actaaagaaa aatatggggtt 420
gttcattgat tt 432

<210> 51707

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E7

<400> 51707

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gacgggacac gggaagagag gaggagcttg cttggacagc cgggtggactg gtgctggtat 180
atagatagct actagaggta ggcggggcggg cgggcggcca atgctgtcag gcgcgtaggg 240
ctaggagcat gggcggaggg ggcgcgatcg 270

<210> 51708

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G7

<400> 51708

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cacaagcaca tgctgtggca cagcgtcagc aagatgcatg cccaaaccgc tagtcgtgtg 180
cgatccagag ttcattgg 197

<210> 51709
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G8

<400> 51709

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taaaaccgga ggatattgat acctcggaac atcttgtgac acttcttgca atcgttccca 180
aggactccca aaaagactgg ctatcaagct atgagacact tgatacattt gtggtaccta 240
cgatcatctaa taagctctat gaataccacg aatattgctat ctacactgat acactatttg 300
cctaagttgt tgac 314

<210> 51710
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D10

<400> 51710

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atagtgtctg ccttggttgg ccagcatata catgggtagt tcattctccg tccattcag 180
gacgtctaga cttaaaaatg gtttgagatt tgattgttcg gacggagcca gcttgctgtg 240
tctcgtctta gtcacctgac atttgatata taaatagctt ctgcctatga gatgccatac 300
tacgcttctg acgtgctgta catttctata 330

<210> 51711
<211> 411
<212> DNA
<213> Zea mays

gctgccaag gtagctcatc tcagatattt aattctggtg tggccaagaa cgtagagcaa 300
ccatctggat ggtctgggta ttaactgcac atcgacatgc gttaaccatc attctggtca 360
aaa 363

<210> 51714
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D6

<400> 51714

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cgacaggaag aggtgcagct cgtcatggac aagatccgcg cggctgccac cggcactccg 120
tcggctcgct gtcgtcctga tcgatctact gtccgggtac accaacgacg tgggtgtgccg 180
cgcggtcctt agcgcgtcac accggaacca acgcctgaac actctgttca gctagctgac 240
agatatcaac 250

<210> 51715
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-010-Q1-K1-D7

<400> 51715

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ggtgagcacg agccggctcg acgactcggg cgcggcgcgg ccggcgagca agtcggcggg 120
gtcggccggc tcgtcgtcgc agtcgcaccg gagcatctcc tcgtgttacg aggagcgggg 180
ccacggccag ctgcgggtgt tcggctacga ggagctccag ggcgccacgg ccgacttcag 240
ccgcgcgcag aagctcggcg agggcggtt cggcagcgtc tacaagggct tcatccgcgg 300
cgccgacggc aagggggacc gcgttcccgt cgccgtcaag aagctcaacc agcgcgggat 360
gcanggacat taagcatggt tggcggangt acagtttctt ggtgttctgg a 411

<210> 51716
<211> 363

<400> 51718

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gagggtcaga ataattttctg ggtagttatt ttccataatc tcgtgccaca ccaacgacta 120

tttctactcc ctcatggcca atgccaatga ccacgtcaag ctactcgtca tctacttcat 180

agccccctgt tgcagttggt gccaaatgat cgccccctg tactcatact gctccagcaa 240

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tctacttctt 310

<210> 51719

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E12

<400> 51719

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aaaaaaaaaa aaaaaaaaaa aaagaaagaa aaaaaaaaaa aaaaaaaagt aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaactaatt aacaaacaaa aataataaat aaaacctaatt 180

aaaaaaaaaa ccctttaatc acaaaatttt acatttctct aaaataaaaa actacttaca 240

caaaactatc attttccata ttattaatta actcccctaa atcataattc aaactatcaa 300

aaatctcctt tta 313

<210> 51720

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C4

<400> 51720

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gctggtgagg cccggcgggc tcatcggtc cgacaacacg ctgtggaacg gctccgtcgt 120

gctccccgac gacgcgcccc tgcgcaagta catccgcttc taccgcgact tcgtcctcgc 180

cctcaacagc gcgctcgccg ccgacgaccg cgtcgagatc tgccagctcc ccgtcggcga 240

<211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B1

 <400> 51723

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 gccaaagaaat tgactccaaa atcatgacga tagtcaatgc ttcgaccctt acgactccat 120
 tcgcttcatt ttcattcagc gcaaccgcct ctttcgaggt tcaaagccca tcaaggatag 180
 aggtccaatt taaggagggg agctttcagc ctccgacaat atcatcatcc gtggatctac 240
 ctcaacaagt tgatatatth gggcagaaga tcagcctggg gccagtccag caggcactga 300
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<210> 51724
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-010-Q1-K1-B3

 <400> 51724

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 ctcccgtcc acctctacc ctcgctcgct cgctctttct gcgcagtttc cccggccgac 120
 gcctcggccg ccccggcgtc cgctcggcc gcccggcggt ccgccaaggc cgccgatcgc 180
 atcgtgcgcg tactcgccat cgatctcgag ggggcgcgcc gcgaggctcg cggcctctcc 240
 gggcagacac tcttcgtgc gctcgccaac gcggagctca tcgagccggc ctcccaccgn 300
 ctcgaggata tc 312

<210> 51725
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B5

 <400> 51725

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ggaatagagc gggttctctg cctcgtgtca ttcctatgta ctgtggtctg cggaggccta 120
 agttgcagcg cgctgagata gagttcacat ctaaatagac ggcttcgatt gcccttctat 180
 gcctcaagct ctactgactc cttatgcttc ttattattcc actgtcttac tctgctgcgc 240
 ctctgtccat aaacctgtcg ctgactagga accttctgca gcccgcggat gaccctgctc 300
 cagaggttcc agatccccgac cagcaagggtg cggatgctga tgctggtacg gtgggagctc 360
 tagaccatgg cagttaggta gcgagtagga tggacatcga tgtcaacgac ta 412

<210> 51726

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-B6

<400> 51726

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 ggtatcgacc ctcatggatg catagtgtct ttcctatatc ctgtggtcta gaagacgcct 120
 aagctgcagc gcgctgtgat agagttcaca tctaacaaga cggcttcaact tgcccttcta 180
 tgctcaagc tctactgcct ctttctgctt cttattattc cactgtctta ctctgctacg 240
 cctctgaaca gaagcctgtc gctgactagg aaccttctgc agcccgcgga tgaccctgct 300
 ccagagggtc ccgctcccga ccagcaagggt gccgatgcta atactggta 349

<210> 51727

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-B7

<400> 51727

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 gccctctcct ttgtagcagc tatgtttgcc ataggctctc atgctgatgg agactgtgag 120
 aatgacctcc aaagcctgat aagtgactgc aagacatacg tgatgttccc agctaatacca 180
 aaggccctc cttcgatgc ttgctgtggt gtcatacaaga aggcaaacgt ttcttgcttg 240
 tgctccaagg tcaccaaaga aactgagaag gttgtgtgca tggagaagggt tgtgtatggt 300

gctgagcagt gtaagaggcc atttgagcat ggcttccagt gcggaagcta caaggttcca 360
gcaaaactgat gatatcgcaa gaaggaagcg cttgacgtag tcttt 405

<210> 51728
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-010-Q1-K1-C1

<400> 51728

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gtgtgggaag tgggtggagag aagctattgc ctgagtggta ctcagagaaa ggcattgagc 120
tgatccttag tacagaaatt gtcaaagctg atctttccac caagactctg actagtgcag 180
ctggagcaaa ctttacatat gagatcttgc tcattgctac tggctcctcg gtcataaagc 240
tcaccgattn tggcacacaa ggagctgatt ctaacaacat tctatatcta agggaaattg 300
atgatgctga caaagctggt gcagctatcc aggcaaagaa aggtggcaag gcaatggttg 360
ttggaggagg ttatatcggc cttgaactga gtgcagccct gaagatcaat gactttgatg 420
tcactatggt gttt 434

<210> 51729
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C2

<400> 51729

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tgcacgcagt tctattctgt tttatatcta actcaaatca tagttggttt ctaatatagc 120
ctaagagaat cctggacaac taagaccgta gcctatgtat aacatattct aacaaaagct 180
gcctggccta agcagctgag attgtgctgc ctggccaggg caaccaagct gcctggccta 240
gttgtaacat attctaacaa cgtttact 268

<210> 51730

<211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-C3

 <400> 51730

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 agaaaaagtg aaaatattaa aataaaatat aaa 93

<210> 51731
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-A6

 <400> 51731

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 ggggtaccaa gtccctcttc aagggtgctg gcgcaaacaat cctccgcgct gtagctggtg 120
 ctggtgtcct tgctgggtac gacaagctcc aggtggttga cttcggcaag aagtacgggt 180
 ctggtggtgg ctaaggatgt ataatgatga tgacaacgaa caacaacaat gatgttttag 240
 gtgcctcctt taagtaaaca tacttacgga ctttttacac catttta 287

<210> 51732
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-F3

 <400> 51732

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 ctagaacccg catgctaaag gaatattttt actcaaaacc aacctaacaat gtgaaccttt 120
 tgaaccaaac acggattgat gcatgttcaa cccgttccaa cccgctaacc aaacacaccc 180
 tctgtgacgc gagcaggttg gggacttggg attggggttc ggggagagct gaaagggaaa 240
 tgtgcccttg ggccatttct aagtattttg gtgattgagt gccaacacaa gtgattaaat 300
 gtgaatctat gcccatggat ggacaaagtg caaatcaaga gtaaaggat gtttct 356

ccaacccgtc cggccctggc aaactggctg gcaaaccgc gccgaaacc gctggcgcg 60
gtccacttgc acgcggtttg ctgcgcctc aggaaatag gactgaggtc caacgacctc 120
tacaaccctt atttcaatct ggacatcatg gacgcgctcg gtaggctgcc tagggaggtg 180
gcaaccccg catcatcgcc taaagcgtgc catggacctg tccatgaagc accagcacct 240
cccggaggac ctccaggcac agcaggttcc attcagagga tatttgagtg acatgttggc 300
gttggtgaaa aaggaaagcg ccgagcgtca gtcactggga gcccc 345

<210> 51736
<211> 173
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-009-Q1-K1-G3

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acggcggcnc gattccgaag cgcacacact cgctccagcc aaaagcatcg cagcttctaa 120
tcgatcggag agcacacacg aatgtcgtac gtgcagctct atgctgctgg agt 173

<210> 51737
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-G6

<400> 51737
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ttatcctcag taagaatgac tcggatggag attcgagcag ccagggtggc ttcttatgcg 120
gtcacctcc gatacgcgt gacaaccctg ttatccatga tccacagttt ggtaaaagac 180
tgccatcctt ttctcctcta ggaggagct cctatggcaa aatgccagca gtacgagttg 240
aagtaggctc gccatcttgc ggcgttagca gcagcccaa agtaaggatt gaaggtttcg 300
cctgtggcaa ctccgagacc cactatgcag ttacctttgt ctg 343

<210> 51738
<211> 330

66469 "G44650"

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-G7

<400> 51738

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gggggacggc gtggaacctc ttcaagatcc ggaaggccgt cagcccatcg tcctccatgc 120
ccgggaacat ggtcaagagc gccatcaaga acaggaactg acgtcggcac cagacagttg 180
ctcattgtgc tcctcttgat gatcatatac ccagaatgat cggacagtaa ttcaatgcgc 240
tcctcttact ctggatgata atgtacccat aatggcgtgt aactatcgtg tgtgcaccat 300
cgacattaac aaatacttgt tccaacaact 330

<210> 51739
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-G8

<400> 51739

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tggactgggt gctggaccgc tggcgcgctt gctgcgtcac ggacaaccgg gacccgcgcc 120
tgcagggcga ctttctcgag cgcgaggcca gcctcgtgct gaggctcggc ttgctgtgct 180
cacacccgct gcccggcgcg cgcccggtca tgcgccagat cgtccagtac ctcgacggcg 240
atgcgccgc 249

<210> 51740
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-H1

<400> 51740

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cgatggtgct gtgggtcttc ggctacggct ccctcatctg gaaccccgcc ttcgacttcg 180

agatgatccg tgaggccgat gttgacggcg actgccagat caactacgag gagttcgtca 120
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 atcaggcaca caagctgtac ttgccatgt cccttttgag tacacatcag tatcatgcag 240
 gaggtaatgt ctagtagtgg tcggtttagg tgggtgagtc atgggaactc gacatcagat 300
 acctggtctc ttttgattgt gatgttaatc tgcattattg ctctgctgg agcctttagg 360
 atttgttgta agctcatatt ttcagggg 388

<210> 51744
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-H8

<400> 51744

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<210> 51745
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A11

<400> 51745

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 ggctctcct tagtgacagc tatgtctgcc ataactcttc atgctgatgg atactgcgag 120
 aatgaccttc aaagccttat aagtgactgc actacatacg tgatgttccc atctaattcca 180
 aatgtcccta ctccgatgc ttgctgtcgt gtcattaaaa aggcaaacgt ctcttgctta 240
 tactccaacg tcaccaaaga tactgataaa gctgtgtgca tagagaaagt tgtgtatggt 300
 cctcagcact gtaagacgcc atttgagcat tgcttccaat gccgcagcta caaag 355

<210> 51746
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-F1

<210> 51749
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A4

<400> 51749

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ggaggccaag ccggggaaca gcgccgtcga cggcgtcgga aacggcaagg agtacgagaa 120
gatcgagttc ccggacctga atctcgtgca ggagaaccag atcatggtct ccgagtacac 180
caggctgtcg tgcgcgggccg tggaaacgca gagctgcgac agcctcctga cctcggagca 240
cgatgactgc tccacgggtcc tgagccggga cgccgacgtg cgcctcgtag atagcttctc 300
gaccgacaac aacaccgccg actcgggtggg cgccttcag agcgacacgc cggtcagcag 360
cgtg 364

<210> 51750
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A5

<400> 51750

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gtggggctgg ccttgccac gcccgagttc ctgctcttca gcccgtgct cgtccacgcc 180
gcgctgctca tcggcacggc cgtcgcggag ttcctcacgt cgggcgcgct ggggctcggc 240
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gactacgtcc aggaggcgcg ccgc 324

<210> 51751
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-B8

<400> 51751
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 ctcccatctt tgccgtgatt ggtgattgga attaaagccg gagtgaggga gatgcctgct 180
 tttgactcta tggcgggtat taattgtttg ttgggattat gcattagcct caagagttgc 240
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<210> 51752
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C1

<400> 51752
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 ctgcatgggt tccatgtgca tgcacttggg gacaccacca atggctgcat gtctactgga 240
 ccacactaca atcctgcgag caaagaacat ggagcaccag aagatgagaa cgcctatgcc 300
 ggtgatcctg gaaatgtgac aactggag 328

<210> 51753
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C3

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 tggttgtgtt ccgtcctctg gagaagactc agatgctggc cattcttgat atcatcctaa 180
 aggaagtcaa gggccgactt ttggccctcg ggatagggtt ggagggtgtct gatgcaatga 240
 aggacctgat atgccaagag ggctacgaca aaagctatgg cgctcggcct ctgaggagag 300

tccacctgct caccgatgcc aaccccatte aggtcgtcgt cgacgcgatc a 411

<210> 51757
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D5

<400> 51757

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aactctgtct tccactgccc agaccacat tgagattgac tcgctgtacg agggcattga 180
cttctactcc accatcaccg gtgccagggt tgaggagctc aacatggacc tgttcaggaa 240
gtgcatggag cctggtgaga aatgcctgag ggatgccaag atggacaaga gcagcgtcca 300
tgatgttgct cttgttggtg gctccactag gatccccagg gtgcagcagc tgctccagga 360
cttcttcaac ggcaaggagc tgtgc 385

<210> 51758
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D6

<400> 51758

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cctccggtcg acagatccac ttaccgaccc ctgcgcgccg acgttggcgg ggatgtcggg 180
gtccccggct gcggccgcgg tgaagctcac cgggcactct gcaacgagcg tgctggcgtg 240
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attcaatatc ct 312

<210> 51759
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D7

<400> 51759

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ggtcctcctt gctgctgacc ttaagaagaa agctgaaaca cttgacaggt tctgcaatgc 180
cgatcatgac gaaaccgaag ccagttccta agccacagac tccgcctgcg gcaaataccc 240
aagctcctga gcctcatata ccggagcatc agcgatcaaa tggcggaagc acaaccagcg 300
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<210> 51760

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D8

<400> 51760

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aactcgatgc ccccccgctc gccgcagcca cagccgctcc gagcttgagc cgtcgttgct 180
ccgctgaatc gcccccatcg tctctcctga agagagagga catttattga gacagcatgc 240
ctaagataaa gacaagtcgt gcctagtatc ctgaaggacg ggagcttatt gaaccaacca 300
tccttgagtt gg 312

<210> 51761

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E1

<400> 51761

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gtgtctctat ctgagccatg gccacccag aacaccaaca ggacactccg aatctcttca 120
accgatggac cttctatcat ctctcacga acgacatctc ccttaacgac tacctagctg 180

tgaacgctac gaagcacgcg atgtacctgc cgcacacacc tgtaccttac tcca 234

<210> 51762
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E3

<400> 51762

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tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctcccaccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaat 238

<210> 51763
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E4

<400> 51763

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gaatggcgac cgggtccagtt aacccaaaac cttttctgaa caacctgaca tgaaagcctg 120
ttattgtcaa actcaagtgg ggtatggagt acaagggtta tcttgcttct gtggactcat 180
atatgaatct ccagcttgcc aacactgagg agtacattga tgggtcaattc tctggaaacc 240
tgggagagat tctgatcagg tgcaacaacg tcatg 275

<210> 51764
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E5

<400> 51764

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tggccacatt catttcttcc caaacctcc ttgacaatat ttttctccct ctttatgaag 120

taactgtaga cccagcttca catcctcagc tccatgtttt cttaaaacag gttgttgggt 180
 tggatttggg ggatgatgaa agcaaacctg aaagacgccc aacaaaacac atgccaacac 240
 ctgagcaatg gactaatatt ttcaatccag cctatgcgta ttatgtgtac tattgctatg 300
 ccaatctgta tacactgaac aagcttcgtg agtccaaggg catgacaacc atcaaacttc 360
 gtccacactg tggg 374

<210> 51765
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E6

<400> 51765

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 gcttggcgcc gccgcgccc tcgtcttctc atgcatgggc gccgcgtacg ggaccgcgaa 120
 gagcggcgtc ggcgtggcgt cgatgggtgt gatgcggccg gagctcgtca tgaagtccat 180
 cgtgcccgtg gtcatggctg gtgtgctcgg tatctacggg ctcatcatcg ccgtcatcat 240
 cagcacgggg atcaacccca agtgccctgcc ctactacctc tttgatggct acgcccacct 300
 ttcgtccggg gctgcctgtg gtctcgtctg gctt 334

<210> 51766
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E7

<400> 51766

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 gcaccggggc cgccctaata aatcccctgc gctccgcgcc cgccggctcg caaccctaac 120
 ctctctcccc tgctccgccc cgcgccaggt cgcctctact gccatggtga ggcgtgaagt 180
 cggcatcgat tacgtgctgt ggacggagga cgaggtgtcc acccgctgg gcgaggtcgc 240
 cgccgagctc gcggccgacc tgcgcgcgtt gccggagccc gccgtcatcg tcggcgctgc 300
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<210> 51767
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-E8

 <400> 51767

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 aagcactacc gatttaaaaa aaaaaagggt gtctttctct agagtgccca gcctttcttc 120
 ctctttaatt caacctaatt 139

<210> 51768
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-B7

 <400> 51768

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 ggggtgccat tgatttttgt gactttgtcc gagctctaaa tgtgtttcat ccaaatatcc 180
 caatggatga aaaaattgat ttctcgttca agctatatga tatggatagc acaggggtta 240
 ttgaacggaa ggagggttaag cagatgttaa ttgctcttct aggagaatca gaaatgagggc 300
 tatctgatga tatcattgag acaatcctgg ataagacatt ctctgatgct gatgcaaadc 360
 aagatgggaa aatagataga acagagtggg agaattttgt cac 403

<210> 51769
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-G8

 <400> 51769

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 aaaatctggt gtcgtgttgg atttggtgcc accactaaca aagggttaaca acctgatatt 120

tacctggaaa accccagcca taaccctaact aaatcccctc tcaaaccatc cccct 295

<210> 51772
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-H11

<400> 51772

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aatcttcttg ttttctttca tctttccaga actcacaaca ggggtccaaa tttgttaaga 120
caggtttaga tagttcaagt aacattggga gctcatcaat tgcacctccg aagaaagtgc 180
accctggatc aaatggaatg cttccgcaag aagaagcgga tatgccatca catctctcta 240
tatccactaa gatgctacca ccaccctga agagcatgct gccactgcca cccagaagca 300
tgccccacc accacctaag agcatgcctn caccgncacc aaaatttcct tcagatgagt 360
ttttgtcaag aaacgagaac aagttttttc ctttaaagga gccaacagca ccttcaaggt 420
cctttgatgc aatatcagt 439

<210> 51773
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-H2

<400> 51773

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atgttggaat tattgaatca actggatgga ttcagcagcg atgagagaat aaaggtcata 120
gctgcaacta accgtgctga catccttgac cctgctctga tgcgatctgg acggttggac 180
cgaaagattg agttccctca cccatccgaa gaagcaagag ctagaatctt gcaaattccat 240
tcaaggaaaa tgaatgtaaa tctgatgct aactttgaag aattggctcg ctcaactgat 300
gacttcaacg gagcacagct aaagggccaa gtttttggtg taggaaagct tggttnnatgc 360
ttggcccttt tacggcggga atgccttaca gaggtanna ctcacgaagg gatttcaatg 420

<210> 51774
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-H3

<400> 51774

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ggccgctagg ctttgcgctt ttgcctgcat cactcgctca ttcggagccc ctctcttcgc 120
cggcgtcgtg agaagagatg gcagagcggt tgacctgat cgccatagtt agcgaggaca 180
agtgaagcc caagaagtgc cgccaggagt gcaagaagag ctgccccgtc gtcaagactg 240
ggaagctttg cattgaagtg acttcggcgt cgaaactcgc tttcatttct gaggaactgt 300
gcatcggttg tggatatctgt gtaaagaaaa atggcccnc atttgatgcc ccattganna 360
atcatcaa 368

<210> 51775
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H4

<400> 51775

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agccgtggtg cacgtcaact tctaccgaa ctatggtaag acgttcaaga aaccaaggcg 120
tccttatgag aaggagcgtc ttgatgctga actgaagctg gttggtgagt atgggctgag 180
gtgcaagcgt gagctttgga gggccagta tgcactgagc aggatccgta atgctgcaag 240
gcacttgctc acccttgacg agaagaacc ccgtcgtatc tttgaggggtg aggcacttct 300
tcgccgcatg aaccgctatg ggc 323

<210> 51776
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-H5

<400> 51776

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cgttccatcc aggaagttat cgctaattggc attagcgtca acgtcacgct tatttttctca 120
attgcaagat atgaggctgt gattgatgct tacctcgatg ggctagaggc ttctggcttg 180
agtgacttat cccgagttac tagcgttgca tccttctttg tcagccgagt ggacaccctt 240
attgacaaaa tgcttgacaa gattggaaca cctgaagccc ttgccttgag aggaaaggct 300
gcagtagcac aggccaaact aagccaaaaa attcggcttc ttaccannga agaaatnntc 360
tctggcccaa aggggtgggaa ggccgttggc ccaaagaaaa ggggtgccaaa gaaac 415

<210> 51777
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H6

<400> 51777

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acccgcgcgc gcggcggccg gcggcgagcc ctcacccatc cgagcaagcc gtggaggaag 120
cgagcgcgcg aaagtatcag gaggaggcat gggtagcctg gggcgcgcgga tcttcacggt 180
gggcaagtgg atccggggca cggggcaggc catggaccgc ctcggatcca ccatccaggg 240
cggcctccgc gtcgaggaac aggtttcaag gcatcgtaca atcatgaata tttttgagaa 300
agagccaagg atccat 316

<210> 51778
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H7

<400> 51778

caaaggttgt ctagatcgat ccatcagtct tgcgattggc gacttggcgt tttatgttag 60

CCDS: Zm001001.10

attgttcacg ttacccaatt tgttctttat tgatgggtca agataagatt tttgtatgga 120
tgttgctgag gtataaatta gatgctccaa aggctgcatg gagcagatga agacgatgta 180
ttccacttcc catttgcatg ttgtacttcc atagagagat caatgaactg ttatgaagag 240
tcactgcaac tgtggctttt gatctttgtg aagtcacata cagtaattgt tgtagatttt 300
gcaaatacaa ggctgtctgt 320

<210> 51779
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H8

<400> 51779

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aaaagagcgc tcgaatatat aactttactc caaatgactg atggacgttc tatactcact 180
gtactcaaat aactatgggg atcctcaact tacatggatt gattaacatc cacctttcac 240
cagttactgc 250

<210> 51780
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H9

<400> 51780

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acccggaaca gacctggagc caagttgctc ccggcgggag cagtgggtaca gtgaataatc 180
cgaaaggaaa tgctgctgct cagggcagtg ctggttcatc agagaaccat tcggcccaag 240
taaactcctc aaaatctgga aataacagca agggtagcag gtcacataa acacaggatg 300
gtggttctgg tggaaataag aaaggtgatt ggtacaagga aatggctagt tgcgatatgt 360
ttagtgggaa ttgggttagg gatgactcat accctctcta ccctgaggga tcgtgtcctc 420

acattgatga gcc

433

<210> 51781
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-A6

<400> 51781

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atgcaggaac cgtaatatgg actacatata tgaagatgag ctgcaaactt tccttgagga 180
gggggcgctt tctgagctaa ttgttgcatc ctctcgggaa gggccaacta aagaatatgt 240
gcagcataag atggtggaga aggccacaga aatttggaa atcatctcac atggtgggta 300
cttatatgta t 311

<210> 51782
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-A8

<400> 51782

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caaggaccac gccggcccgc tccgcccag cgttgacgcc gtcgagtctg ccgtcaaggg 180
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tgcggcgtct gcgcatgtct acgcggtggt tcggtgcgtg cctgatgtgg cgcgcgagct 360
tg 362

<210> 51783
<211> 233
<212> DNA
<213> Zea mays

<400> 51786

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ctccgcccgc gccgctgcga agtgagaagg gaaaacacga aacgatcgag ggaggggacg 180

acggagcgag ctagctagcg gcgggcggg cgctcgctcg catggacgcg gaggctgcag 240

cggccgcggc ggcgacagcg gtggacgaga gggagcggct gctgacgaac ttcgcgtccg 300

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<210> 51787

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F10

<400> 51787

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tcgagcgtgt gccatcaac tacgagagag cgctgcagaa ggccgtggcg caccagcctg 180

ttagtgccag cattgaagca tctcggcgcg cgttcagct ctacagttct ggcattctcg 240

acgggagatg cgggacgtac ctggaccacg gtgtgacggt ggtgggttac ggcagcgagg 300

gcggcaagga ctactggatc gtgaagaact cgtggggcac ccagtggggc gaggccgggt 360

acgtccgat ggcgcgaac gtcaggggtga gggccggcaa gtgcggcatc gccatggag 419

<210> 51788

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F11

<400> 51788

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aagccattgt agaacataga ggcgtattgc cacttgcat gattcgtcgt tcacacacaa 180

gtctgtcgaa ctctgctgcg tacctacaac agcgacaaca gttacttaat ccattggtag 120
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 tctctttgat gaatcctgtc ttgtcgaggc agcaacccat cgttgagggt gccatctttt 240
 agattacata tgagatgtac tcgataatgg tgccctcata ccgacgtgtg tttcctagaa 300
 ataataata tattgattg 319

<210> 51794
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-F9

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 cacgtccaag atggcatcca agacgaagta ctgcacgng aggattaagt cgttcgtcat 300
 cccctcgcc agcttctccg tcgacaccac gacctctcca gtgtcattct ttgagctgct 360
 tggagtgcta gagagcttga aaggaataac atcgaaccaa gtcgcttctc agtgctgtgt 420
 ccagtcatat acaagtggaa atgcc 445

<210> 51795
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G1

<400> 51795
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 taacatcatt cagacctgac tgtaagctgt gcaaatgctt ctgtcttaac gaagtgactg 180
 aatgcttcgg tcaccgcatg tctgtgtgat gactgtagct gaagtacacc tatgaggaca 240

agctgcgcaa gggccgagggc agaaggtagc ctcaagggca tcctgggtta cgttgaagag 300
gaccttgttt ccaccgattt 320

<210> 51796
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G11

<400> 51796

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tcctatagct gcctatctta ctgcatacct ctgaccagcg gtgtctacag tatgtgaaaa 180
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acccttggtta ctccaacaac tgtcagccct attacagcag gtacctatgg tgcatttgat 300
gacacatgac atcaaggtac aacaactaca acaacttggt ctaggaaacc ttgctgccta 360
ctgtcagcaa cagcagcatt gttgcattca accgactggc tgcatagaac tc 412

<210> 51797
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-G2

<400> 51797

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agtcaagttg ccgggcgtgc cgaagggcgg gagtgcgctc gtgaaggtgg cgctgctcgg 120
cggcgcgggg ctctacgccg tcctcaacag cttctacaac gtcgagggcg gacaccgcgc 180
catcgtcttc aaccgcctcg aggggatcaa ggacaaggtg taccgccgaag gaactcacct 240
gatgatcccc tggatcgaaa ggccgatcat ctacgacgtc cgcgcccgcac ccaacctcgt 300
cgagagcacg tccggaagcc gcgacncttt cncaagaatg gggatgaagaa ttgggnntct 360
tcgtgggtccc ttaactcgac ncnncatgcc aagaaccaag cttaccttaa aaatctaca 419

<210> 51798
 <211> 330
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-G3

<400> 51798

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 gtccagcaac ttgttgccgg agctaatacgt tccaggcagg aagaagcatt gaagaagaac 180
 aaaccaatca ttgttgccgg aacacctggc cgtattttctg aaattttctgc agcaggtaag 240
 ctacacactc atggctgccg ttttcttgta ctatgaag tcgaccagct tctgtctttt 300
 aattaccgtg aagatatgca tnagaatttt 330

<210> 51799
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G4

<400> 51799

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 gtcgagttcc tgcccatcag cctctccttc tgctcacgc tcagcgcctg cgcttggttc 180
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 aacaacgccg tgctgccgac gactcacgtg taccgggcgc tcaacgcccgt gtgcagggtg 360
 caaggggcag gggtagcga gccctgggcg cccaacacgg ggtgggcat cctgtcgggtg 420
 aagccccca t 431

<210> 51800
 <211> 421
 <212> DNA
 <213> Zea mays

<400> 51802
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 ggttaaaact gtgggcaagg ccaaggaaca accgtacaac acttttttat ttcaacggtta 180
 atcaagggttc agcatacgaa ggaggccgtc cagaagacac gtatagcatg gggattcggc 240
 aaaagctagc agctgaattt ggttccacac caaacaagca gggaaggctt gaacggcagc 300
 atgcgggccga tgtgacagtt acctatctac gaactgaaaa atattatgaa gaattagcac 360
 gctctg 366

<210> 51803
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 tggggaagtc tccagccagg gccgggagcg ggggtggcgag tcagtctgca gtcgtcggtc 180
 ggacagggtca gtcgggagca cggcgcggtc caagtcgctg cgagagaaaa gcctgtgccg 240
 cggaacggac actcggggaa ggctgtgtgc cgtgggagct ggtggtgggg acggccgaag 300
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<210> 51804
 <211> 108
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-008-Q1-K1-D4

<400> 51804
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 agaaaagttt aaaactaaaa atatgaacct cataaaaaaa taaaact 108

<210> 51805
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D5

<400> 51805

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 cacctcctcc ggcgcgggcg ccgcgccggg ctcccaccgg tcctccaccg tcagcttcgg 180
 ggcgggctcc gtcggcgcggt cgtcggcgctc cttcaccg atggtccgca acccgcgcat 240
 ggagacgttc tactacgtgc agctggtggg catcagcgtg ggcagcgcg gcgtcccag 300
 cgtggccgag tcggacc 317

<210> 51806
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-D6

<400> 51806

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 tgcctaacgc gcgagaggtt ctggtagggc tctacgagcg cacgctcaaa gagatcaagg 180
 ccgtccccga agacgagggg taccgcaagg ccgttgaatc cttcaccggt caccgcctcc 240
 agatctgcca ggaggaggag gactggaagc gcatcgagga ccgaatcgga tgcgggcagg 300
 tcgaggagct catcgaggaa ggctcggagg ggaacggagc ctcaaagctt tcatcgctta 360
 nnaaatgat 369

<210> 51807
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D7

<400> 51807

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ctagtagttt aggatttctc gtctgacact ttgattctga ccaatctctc tggcctgctg 120
cttgctgata atcgaccagt tccccagcct tgctccttgc actcctccct ccattctgcag 180
cattgcgttc tgattcacct gctccaatgc tgtctttctg ctgctgagct tcacgggtcta 240
gctatcgttt tgagggtat gagacgcct gagatccatc ttgagcacct gcttgggccc 300
tatggagcgt acgtttgcgt gccctctcca gggcccagat tgactctgtt ctggatcttg 360
cacgtgtgca caattgtgtc tgagct 386

<210> 51808

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D8

<400> 51808

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gacaggtcac ccggggcgtc ccagacgac gtggagtcgc ctaagaatta agagatcaaa 180
tcgaggaaga agtcttgat gaacaactag atcttgcccc ccgggagggg tgagatccta 240
gggtcgtctt gggatcgaca tgccaccaa gacggatcta gacgacgtaa agtcgaatag 300
gggtggatgt ggatatgt 318

<210> 51809

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D9

<400> 51809

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aaaaaagga ctcttaaggg cactttaaaa tttaaaaagg gacaggccca gctaccgttc 120
acaatctata accttactcg actctcaagc tcctaacgtc actattatta acaaattgaa 180

gcatactatt gcctgtgaga aaattcaacg tgtcatacct ggaataaata tctcacatcc 240
acataaatgt tattcatata acatccaaca tgaaaacact atattatccc ataataata 298

<210> 51810
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E1

<400> 51810

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aagggtgctgg tcccgatcgc gaatgggacg gagccgatgg aggcgggtcat caccatcgac 180
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gagctgccta tggggcatca agcttacgcg gacgcgctct cgcgacctgc gacagagtgc 300
gatctatctc tctaccggga ggggatgcct ggttcttcga cttttggaga gtgcaaaagt 360
tttgagaaaa atggtcaaaa aacatgtaga gaagggcaaa gcttta 406

<210> 51811
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E10

<400> 51811

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatggcaga aacatattaa 180
aaattaacta aacattatta tccttagaaa aatcaaca 218

<210> 51812
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E11

<400> 51812

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 ccgcccgcgc ctcggcagca cgcggggctc gtacgctctg acgctccgcg gacggagctc 180
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 ttcggcgggc tgcaggacag ggccctggag cagcagctct cgtcgtgcta cttccccaac 360
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<210> 51813

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E12

<400> 51813

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 tcaacatcaa ctaatacatt aaatatactt cttatttaaa tccttacaaa gcataatata 180
 tccaattcca atatattact taattctaca aattatactt tatatatcaa c 231

<210> 51814

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E2

<400> 51814

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 acgctctttg ctttacaaca gttatccggc ataaattctg tggttctatct ctcataact 180
 gtattcagaa gtgtgggggt gccctctaac cttgcaacat atgcatggga tctaacttat 240
 agacatgaca tgcttttagga caagctagta aaagtgcctt ttagagttct ggatggcttt 300

tgcaatgggg cttcaggctg ttggagcaaa ccgtcagtat tcttggttct gcatgtgtat 360
atctttcagt tgggtggccat ttctgttgt 389

<210> 51815
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E3

<400> 51815

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ctccgcgccc gtccctgcca cgggtcgccg atattggaag gagctcgagg ctgggcgctg 180
acctgagtta tggaagggat gccgactgca acagtactcg ccaagcatgc ctaagtcgaa 240
gaagctgaga ctgcagctgg aagcgctgga accggctacc tgtcgcaggg gccaggaaag 300
cgtgctccta cacgtgctgc taggggcaga aagggtgcc ctgggaaagg agtgccccct 360
gcacctaccg actagaaga 379

<210> 51816
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E4

<400> 51816

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atgtccgaga ccatggacaa ttctgagcgc cagtctgtca acatggaggt ccaggccgag 180
ttcatggagg gcgccatggc cggctccacc tccctctcca cgccggagac cgagggtcaac 240
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ccacgccatc ctgccgcaa gggataagga gaaagtcgac gaggatgacc tttctcgccg 360
cctcgccgag cttaaggccc gcggctg 387

<210> 51817
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51817

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tggggccaac atcagcacac actcacactg gctgcaacct gtgatactct acacatagtc 180
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accagcatt cttcattcaa ccactagcag ncattggaac tctgctgctt atttacagca 300
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<210> 51818
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E6

<400> 51818

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caactcgtga actcgttttc ttattattgg gctgatggac aaggcaacgt gaaatttttc 180
atggtacctg ggaacagaac ttagcctaca aactgcagaa ccattctcat ttcatctgt 240
agtcttgtct tgctaataat ggactttgtg ggctgtctgt tccctgtgta attcatttgg 300
ccatgacagt tcttgatcaa tggttggatt tattcatagg aatggtgttc aaaaa 355

<210> 51819
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E7

<400> 51819

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cgtgtctctt tctctctctc atcttgtcac cgtacctatc tagagtgtgt gtgttcgtac 420
taattaaaat 430

<210> 51822
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-B3

<400> 51822

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ggaggggaaa gttcaagggg aagcccacag gccgccgcaa cttctccaca cccgaggaga 180
tcgctgctgg tacttcaggt cggccacgca ctttaagaa gaaggaggaa gaggaagatg 240
aggaagaggt agaaagagaa gagtctgagg aagaatctga agaggattct gatgaaaaga 300
ctaaacataa aggcactgag ggtatta 327

<210> 51823
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B4

<400> 51823

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agatgggctt cgatggcgcg tatttgatgc taagggtcag gtgctgggac gattggcttc 180
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tgagacatg tgcattgtac ttaatgcaca ggatatcagt gttacaggaa ggaaaatgac 300
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51824 51825 51826

<210> 51824
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B5

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caccctctcc ttcttctca cctcagcgc cgtcgctgg ttcttgtacg gcctcttcac 180
caaggacccc tacgtcacgc tcccgaacgt gggcggttc ttcttcgggt gcatccagat 240
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gacggccgcc gcagccgtgg 320

<210> 51825
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B8

<400> 51825

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tgatacgggt tagataatgt attgactgac aaaacttttg tcgacctgaa ctctataaca 180
acgagcagat cgtcaactcc atagctttc 209

<210> 51826
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C1

<400> 51826

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ttgggtcaac aaagggcgga tcgcgngnng ttgccccgtt tcttgaaggg gggcggaag 360
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<210> 51829
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-C3

<400> 51829

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gagccagcct ttccatgtcg ctgaagtttt cacgggtgct ccaggaaagt atgtggagct 180
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<210> 51830
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C4

<400> 51830

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tgaaacctcc agatctgtgc ctccaaggcc cccgttcctc ggcaacaagc cgtccagatg 180
gacaccgccg cgcccctgca actgaaagcc tgcgccggcg acgccgcgga gaagctgctg 240
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aagagtgatg agctcgaacc tgctc 324

<210> 51831

<211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-C5

 <400> 51831

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 ggcgaaagatg aggaagaagc tcggcaccgc gttccccgcg gctcgaatca aaaagataat 180
 gcaagcagat gaggatgttg gaaagattgc actagcagtt cctgttttag tttcgaggtc 240
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 agcaaagaca ctgaattcct tccacacttt ggaaagccaa tggttggtgaa ggaaggtacc 360
 cagttctttt tgaatttcct taaacctgaa agtttgttca agcaaagggt accatgatcc 420
 ttgggtgg 428

<210> 51832
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-C6

 <400> 51832

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 gtacaagggt gtcacgaaaa agatgaaaat ctcaagagag gctatagatg ccagcgggag 180
 aatctcaaac gcagaggata ttctgacaat agaagtaagg cctggttgga agaaggaac 240
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 aatcttggtg gtt 373

<210> 51833
 <211> 218
 <212> DNA
 <213> Zea mays

The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$. In the second part, we study the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$. In the third part, we study the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$.

accacgcatc	cgcaatatct	tctttttcact	ctttggcgct	catgattcca	ccaggatgcg	60
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gcacaactct	atcactaaca	agatcaaaat	ctcaacatag	cttatatatc	ccagctcatg	180
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<213> Zea mays

<400> 51834

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<210> 51836
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D1

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<210> 51837
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D10

<400> 51837

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 ttcaactcgt ctatctccaa cttattacc tttacaacaa taattcccaa atctctaaac 240
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<210> 51838
 <211> 323

<212> DNA
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 <223> Clone ID: LIB3079-008-Q1-K1-B2
 <400> 51838
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 gaacaagttg aaggagaaga ctgatgatga tattcccatg ccagcctatt tcaggttcct 180
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<210> 51839
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 <213> Zea mays
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 tattgctagg gtcgaatact taagttaact atgcgctgac agtctggact agcagtgtta 180
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<210> 51840
 <211> 432
 <212> DNA
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 <223> Clone ID: LIB3079-007-Q1-K1-H6
 <400> 51840
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 ctggccagtg ccggccgagg ctagggttcc ggggatcgcg ggcgcgggct cgggctcgac 120
 tttcgtagcc tagccgccgc cgccggccgc gcgggggaac cggatgctat gctgctgagc 180

tgcgggtcgc tctcctcctg ggtgcgccgc ttcgtcgcct gcgttggagg ttgttttggt 240
 tgtgcccagc ctactccaat aatagctggt gacaagccta caaaagggtt aagaattcaa 300
 ggacgctcag taaaaaggcg caacgtatca gacgactttt ggagctcgag cccacacgaa 360
 atggagaata gtgccttgca aatcccgcac agtatgtcct caatcagcac agcagcacag 420
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<210> 51841
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H7

<400> 51841

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 gattgcacta gcagttcctg ttttagtttc gaggtctctt gaattgtttt tacaagattt 180
 aattgaccgt acttatgaaa ttactcttca aagtggagca aagacactga attccttcca 240
 cctgaagcaa tgtgtgaaga ggtacagttc ttttgatttc ctaactgaag ttgtcagcaa 300
 ggtaccagat cttggtggcg ctgattcctg tggagatgaa agaggattac ctagaagaag 360
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 aaatgc 426

<210> 51842
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H8

<400> 51842

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 ctgcacaggc agctcttata tcgatgacaa gtttgatctc ccctttacta ctcttgccaa 180
 gaatgctgcc ttacctcaag aacaagaatc cactgatccg agcaaaagca tcaactgtgtt 240

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286

<210> 51843
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H9

<400> 51843

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gaagctgtag atagaaaagg caggcgtctc atgctcttgt tgtctagtct aatttttaaat 180
tttactcggc ttattaatca cggtagtgac tagctgcctc aaaacctgct cctcccagca 240
gtaccttgag ctgtatcccc gagattcctt aaccagcgcg aaccaatata ctgttgcggtg 300
ttctcctgca aatgagatgt tctgcaccta tgtttgtaat gttgtatttc tgggttttta 360
agctatccaa cttggagata caaccggtga ggaagcaaca a 401

<210> 51844
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A1

<400> 51844

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acaatacgag tacaatgcga tgccctggact acgagaggaa cctgctcacg taaaccgagg 180
tggacgccat cggactcctc tagatgtagt cctacatctt caagcacacg aaccgtgaat 240
atgcgactgt gactgtgttt t 261

<210> 51845
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A10

<400> 51845

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tccgcagcct cctcctgaga ggatcacctt cactctccca ctgatcaact cagcatccaa 180

catagcaata gtgtccactg gtgatgacaa agcaaaggct gttcacatag cagtttctga 240

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cgggaagctg gtatggtttc tggacaaggc ggcggcatca ttccttgact ccaagaacga 360

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tgaagcgaat gaacggaggt gtgtgt 446

<210> 51846

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A11

<400> 51846

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agggcggcgg cggcgccgga gggctcacgc gggggagctt cccaaggga ttcgtcttcg 180

gcaccgcctc ctccgcttac cagtacgagg gagcggtgaa ggaggacggc agagggaaaa 240

ccatctggga caagtctcgc cacacgtttg ggaaggttgc agacctgagt aacgccgatg 300

tcgcggtcga tcagtaccac cggttcgagg aggatataca gctcatggcg gacatgggga 360

tggacgcgta ccgcttttcg attgcctggt cgaggattct gcccaatggt accggccaag 420

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<210> 51847

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-A3

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ctcatcctcc tcgccaacgg cggcctccag atctgcaacc cggcgacccg ccagcgcgcg 240
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aggtcgtacc gtgtgctctg ctggct 326

<210> 51850
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A6

<400> 51850

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gtgcccggta atggctgttg gattaatgta ggtttgattc aattaatatt taataatagt 120
caatgctaag agtctacttt 140

<210> 51851
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A7

<400> 51851

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tcgagatctt cctcccataa tccacacctg tcggcaccct ccgcgtgcaa ggagtgcaga 120
tcgttatgtg acaaaccgt gactaggcaa agacgtatca gccgctcgag tgtgtgagtg 180
cgtcatgaca accgattgac acacgtataa gtgccaagta tccagtgaca caggacgggc 240
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cgggccgcac gcctatgctg acatacaac 329

<210> 51852
<211> 450
<212> DNA
<213> Zea mays

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gatgggagtg atggtacatt ctacatgtgc aatgaaccct gttgaaaacg acagcattgt 240
tgctgagatg ctgcgagatg attacgactc tgttgaacta tttgatgtca ctaatgaact 300
aactgaatta gtccgtcgtc ctggac 326

<210> 51855
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H4

<400> 51855

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ctgtgaagct gcagaggcag ctcttatatc gatgacaagt tggatctccc ctttactact 180
cttgccaaga atgctgcctt acctcaagaa caagaatcca cggatccgag caaaagcatc 240
agtgtgtttc agcaagagtg taccacgcct tgatgtggtg ggaatcaaag aatatggtat 300
ggataagctc atccaaattg cggcaacca acttagcgac cagcttcctg aatcaaggga 360
ggctgctcgc aacctggcac tggaactgca agcattctat gagaagtc 408

<210> 51856
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G11

<400> 51856

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ttttttttat attttaattt tttttttatt attaattaaa ttttaattta aatttttaaaa 120
aaaaaataaa aataaacaat aacttcatta aactatataa tataataaaa aacaaaataa 180
aaataaacaa aaataaaaat attaaaaaaa aaaactaaat caaaaaccat aatataatac 240
aacacattac cataaaaaaa taacattaca tt 272

<210> 51859
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-G3

<400> 51859

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 gccccggcct gcggcgccac cgctccggcc ggcgtccctc cgcgccgccg caatcgcctt 180
 cgccccctcc ccgcgccggg tccgcgtctc cgtcgccggg cgggccagga tcccctccgt 240
 cattgcgatg gcttctgcca aggaaggaaa tgggtgcaccg accaagaaaa cctcgtttca 300
 cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc gacctgtcac 360
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 cca 423

<210> 51860
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G4

<400> 51860

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 gtataataag atttctgatt tgggggcggc tcgccatggg attcggaatg gggaataata 240
 acaacggggc gagctcctcg tcgtcgaggc tggaccggc ggccgccgtg ctgccgcgcc 300
 acggcagcag cggggggcgc gaggggtggtg gcctgtcgtc gcagcccaag acgttcgcca 360
 acgtcttcat cgcggtgggtc cgcgccggcg tgctggggc 399

<210> 51861
 <211> 396
 <212> DNA

51863 51864 51865

<400> 51863
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atcccgggtgt ctcagcagcg gcgggcgggcg cgtcgagctc ttgctttctg tgggaggacg 180
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cggatctaca gggaggagct tgctgcaggc caagaatagt tgccctgtga actttgagtt 360
ccaaaactac acaatcatca caagcaagtg caaaggaccg aagtttccag ccagccaatg 420
ctgtg 425

<210> 51864
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G9

<400> 51864
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gcatcacct ctcatccaag aacgtcaaga acctggagaa agtttgtgcg gatttggtaa 180
aggagaccaa ggataagcat ctgagggtta aggggcctgt caggatccct actaaggttc 240
tccacatcac caccgcgaaa tccccttgcg gtgaaggaac aaacacatgg gaccggtttg 300
agttccgcat ccataagagg gtgatcgacc tgatcagctc cccagacgtg gtgaagcaga 360
tcacctctat caccattgag cggggtgttg aggtcgaggt gaccgttgca gacgtgtaat 420
gacgatc 427

<210> 51865
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H1

<400> 51865

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 cggcaccgcc gtcgtgctct gggagtgggtg caagggcgag aaccagagct ggaagatcct 300
 gccgtgggggt cccgaggcca actcctccgc ggcccacgcg ggaggcccg acgccgtgcg 360
 cgtcttctgc aaggccggcg gcgaggacta cagcctcacg gtgcgcaacg gcacggcggtg 420
 cctggcgcc 429

<210> 51868
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H2

<400> 51868

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 ttatcaatat catcccttga tgagtgtacc gtccgtgtgc gtaccatggg cctaattacc 360
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<210> 51869
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-H3

<400> 51869

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acatatcatt gccaacgcca gcatttaaca tctgcgcatc ttttatcctg ggttgactgg 300
gaagggccaa gagcagcggc ggcggatact gctggatcag ggttctggat gctctattcg 360
tccgctcagc attccgatgg ttgcccgttt cagatatagc ggatttcatg cnttggttct 420
ggtcatgtc 429

<210> 51870
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F9

<400> 51870

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cccgtgccag gtttgaggag ctcaacatgg acctgttcag gaagtgcatt gagcctgttg 180
agaagtgcct gagggatgcc aagatggaca agagcacctg ccatgacgtt gtacttggtg 240
gtggctccac taggatcccc aggggtgcagc aactgtccca ggacttcttc aacggcaagg 300
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<210> 51871
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51871

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agttttctgg ttcgatggct ttggtaacga tgagtcagcc accgagcagg ctctcttgca 180
gaagttcttc gcgagtattg ccatcaagat tttgtcggaa cagctgtccg gcctgcaggt 240
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<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E9

<400> 51874

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ttcttgga 428
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<210> 51875
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F1

<400> 51875

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gtggtcttat agatcatctt ggaattgagc ctttgatgat ggaagctctt gagaagattg 180
agaaggacat taagaaacca cttttgagga gcgacaagaa gaacatggcc accctcttgg 240
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ttgaagcaat ggagactcaa ctcaagaggg aggagtcca agatgaggag atgcctgatg 420
tcaggaaat 429
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<210> 51876
<211> 413
<212> DNA

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tccttacacc	tcatggatcc	ctataactgt	ttatatctgc	ctgcgcaatt	gctcccagca	180
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tctttgtttc	ataccagaat	atcctatgct	taacttcatg	cttactacgg	cgatctatct	360
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<210>	51879
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<400>	51879
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<210>	51880
<211>	182
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<400> 51880

6633750 " 6633750

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ct 182

<210> 51881
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F5

<400> 51881

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aaggccgccc cttctaaagg atcaaactta actaacctt cttccaatg aataactttt 180
actaaaatct cccctaaatt aaattcactc cccttttttt aaaaacttct tacctggaaa 240
aaccttggtt ttaccaaact aaaaccctt caaaaaaatc cccctttaac catctgcccc 300
aataacaaaa agcccccaac caatccctt tccaaaaaat tccccaccct aaatgccaaa 360
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<210> 51882
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-F6

<400> 51882

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tgaagagcag tttgaacgat cggatggatt tcagcagcaa ttaataatta aagtacgtga 240
aattttgacc gacaaagaat ggcgtangag aaaaatgcaa atgaggatat cagaggaaga 300
aggaagactt aagaaggatg aggaggaaac aaaagagatg tggaagagga agagagagca 360
tgaagagaag tgggaggaga ccagagacaa gcgggtctnc agctggaggg atttcatga 419

<210> 51883
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F7

<400> 51883

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tctccacaaa cttcaattaa cttaccatca tcattcacc ccatcactat caaaacactt 180
tccttaccaa cattaatctc catgtactac atacaccata ttttctaccg cttttttatc 240
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<210> 51884
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F8

<400> 51884

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gcaccagtga atgaattgca acctgtgcaa attgagtgtc tgccctgaggt gtccgtaagc 120
acagctggaa ctgcagctga gaacattcag caagtccagc aaagtccgaa agatattcaa 180
agcaagtccc agggcgcttc aacaaggagc tgtacaaagg ttcataagca aggagttgcg 240
cttggccggt ccgtggacct ctctaaattc accgactacg gtgagctcaa agcggaacta 300
gacaagatgt ttgagttcga gggcgaattg gtatctgcta accggaactg gcagatcggt 360
tataccgaca acgaaggtga tatgatgctt gtcggagatg acccggtggga ggagttctgc 420
aacatagtgc 430

<210> 51885
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E4

<400> 51885

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gagaggagga tcgacgccct ggactaccgc accggcgagc ggcgcccat cgcgcgga 120
acaggccgga ccgccgcaa cggggacgac ctgaacgtgc tggcttcctg cgaaggcctc 180
ctcatcctcc tcgccaacgg cggcctccag atctgcaacc cggcgaccgc ccagcgcgcg 240
ccactcactc ttctccacgg cgcctattgc atctccgcgc tttatcctca catcccgctc 300
aggtcgtacc gtgtgctctg ctgcttcgag agagccgagg acggccacgc cgtgtaccac 360
gtgcacaccg tcgggtcgcg cgagctcagg tgcgtcggag aaccttcgcg gccgt 415

<210> 51886

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-C8

<400> 51886

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gttctccacg ccgccgtcgc cggcgccgctc gcgttggtta ggttgacctg accgatcttg 120
acttctctag gctcttgcac ccccgacgac ggaaatagcc tccgagtttc caacaggggtg 180
gctccgggtc accacgaagc ctgatctgc atgacgaggc tactcgatcat cctgttcgcc 240
ggggcgaccc tagtagtcgc caccaccgcg caccgacacc atggtgaggc gccacactgc 300
gccggaggca gcgagcacgt gcttgcgagg ttccgccccg gtgaggtgac cgtggacggg 360
cacaacgagg actgggagag cgtggaggcc tcngagttcg cgctg 405

<210> 51887

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-C9

<400> 51887

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cattatccat ggcggaggag aagcaccacc accaccacct gttccaccac aagaaggacg 120
aggagcagct cgccgccggc gggtacggcg agtccgccga gtacacggag gccacggtga 180
cggaggtggt gtccacgggc gagaacgagt acgacgagta caagaaggag gagaaggagc 240
acaagcacia gcagcacctc ggcgaggccg gcgccatcgc cgcggcgcc ttcgcactct 300
acgagaagca cgaggcgaag aaggacccgg agcacgcgca ccgtcacaag atcgangagg 360
aggtcgcggc ggc 373

<210> 51888
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-007-Q1-K1-D10
<400> 51888

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aacttcaaca agcagcgggc gggtctcggg cggcgcgcg ggccttggtg gacgacgctc 120
aagcggaggc gggcagcgct tgggagtcag gcgtgcgacc ttgcggctgt gctcaggcgg 180
ggcgttgctg gaagcgctag ggagtcgggt gtgcgacggg cggcgctcgt tcctcaggca 240
tgtgcggacg acgctcagac gcatggctgt gtcgaccact tgcagacgac gccgacacag 300
atccagggtc aggtccaggt taagtattgt tttttggtgt gtggacgtga ttcttctagt 360
gagatatgtt ctgaagcggc aaggtaaacc ctcttagtct acttgtttaa cttttaaaat 420
atacc 425

<210> 51889
<211> 197
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-007-Q1-K1-D11
<400> 51889

actcggttct gaattccctg ctctaccac tcttcctaaa aaacaaaaaa aaaaaaaaat 60
taatttaaaa aaaaaaaaaa aaaaaaaaaa agaaagaata aattaaaaaa acaaaaaaaaa 120

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-D4

<400> 51892

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acaatgggta cttcaatggg agtggatggc tcatttgtat catccatgtc ctctgatatc 120

tctgttgaag aaagcagctt tcgacaactg cagaatgctg ttagtcagct ggatgtgcaa 180

accaaattgt gcattagaga tggtttatac cgattggcac gaagtgcgca gcacaggcaa 240

gttattccaa atatgatgag cagcaatgaa gacaaccgg atataaagga tctgcagaat 300

gcagaaactn tgcgcaaatt cgtcgatcct cggagcatcg agacacagac aaacccgatc 360

gaccggtcta tcgctctgct actnttccac cagtcacgg accatgcggc tgtggctgtc 420

gacgatg 427

<210> 51893

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-D6

<400> 51893

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ggttcctgct gcgatctgcg cttgtgcat cggccgtcat gttacggcac acaacgacgc 120

cggcgtctgt cgtcgccgc ttgatcggca actgggtagc gtcgcatcga acgagcgatc 180

ttgtcgctg atccattgat ccaactgtgt tggaagaacg gcgtcgtctg caaacagcga 240

ggcagagaag cttcggggcg ggcaaagcag cggcgtcttg cgcatagcta cggcggggcgt 300

ggacagaaca gcggcagggc ggngagaaaa gacaaggttt gatgtgatgt gtatttgaca 360

ataaggttct atgtgcgtnc gaattgtatg tcatatatgc atgtgtttga t 411

<210> 51894

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D7

<400> 51894

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ggcaaaaggg catcatgaag cttcacggat gtcaattgag acagggccct actatttcca 120
ctacattatt gagggcagag tatgttatct gactatgtgt gaccgctctt atccgaagaa 180
acttgcattc cagtacctag aagatctgaa aaatgaattt gagaggggtca atggcaacca 240
aattgaaact gctgcaaggc catatgcttt tatcaagttt gatacattca tccagaagac 300
taggaaactg tatttgata caagaactca aagaaacctc gcaaaactga atgatgaact 360
ctatgaggtg catcaaatta tgactcgcaa tgttcaagaa gttcttggtg ttggtgaaaa 420
gc 422

<210> 51895

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D8

<400> 51895

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gtttcccaa aaaattatcc ttgaggggtg aagcattcat gtagatggag aaggtacatg 120
cattacaacg gaagaatgct tgctgaatcc taataggaac cccaacatga ccaaactaga 180
gatagagaat gagctgaagg attttcttgg agtctcgaag gtcactctgga tacctcgtgg 240
actttatggc gacgaggata caaacggcca cgttgacaac atgtgctgct tcatcaaacc 300
cgggtgtgatc ctgctgtcgt ggaccgacga cgagaaggat tatcagtacg aacggtcggt 360
cgaggcgctg tctgttctct ccagtcctgt cgacgcg 397

<210> 51896

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D9

<400> 51896

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ggactggtat gacatcaagg ccccatcggt cttcagtgtg cgcaacattg ggaagactct 120
cgtgtccagg acacagggta ccaggattgc ctctgatggt ctgaagcaca gagtctttga 180
ggtttgtcta gctgatcttc agggtgacga ggatcaggct tacaggaaaa tcaggctccg 240
tgctgaagat gtgcaaggca ggaatgtgct cacaaacttc tggggcatga attttaccac 300
cgataagctc agatctctag taaagaagtg gcagacattg attgaagccc atgttgatgt 360
caagacaacc gacaactaca tgctgcgttt gttctgcatt ggttttac 408

<210> 51897
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E1

<400> 51897

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ctttgaagaa cccttgcaag attatcagcg tgctgtacac tctatacaag ccactatgct 120
tgatcgaacc aatgctttca agcagcacta cgatatgaat catgagaggc tgtatcaaga 180
gcttaatctt gacatattca agttcatgaa ccctgaaacg tatgccgaag cacaatctga 240
gtttccagac ttgaaagcag aactgagga ggctgctcac atatttggac tcatggatgg 300
actaatgaat gaagagcatg ctcgtttgcc agatcatatt acacttgata ttggactatc 360
attccatgaa tatgc 375

<210> 51898
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E10

<400> 51898

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ctcctcctgt ttgctgtaat ttctccgaac caagtaattg gtagtgcttg tactccggaa 120
cagaaggctg ccctcctaaa tcaatgcgaa gagtacatca agcctggata ccccttata 180

ctgccatcgt acgccagtgt gtgttgcgac aaggtgagag atgtgccaaa tagggacatg 240
aactgcatcg tcgatctgct cagcctcca gagaaggcga aacacggtgt cgacaagata 300
aaacgtctga aagatctctg cgacaactcg cctcatcatc aggtggtggt gtagacagac 360
agcagctgtc attgctaatt gagttcggag gcaagatata tggcttaagt aataaagtcg 420
tcgatcaaag c 431

<210> 51899
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E2

<400> 51899

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gtggccgcct cccgtagaga ggaacgagga atctatctgt aagatttggg tctggtgctg 120
gccgatgaat ggctaaattg atctgttcta gtataagcta ctatcaatat actgtacact 180
tgctaattaa aagaaagaag ttttatgtat gaatgaactg caacttgagt cattgaaaag 240
ttgttgctgg tcttcttttag tttgagttag gggatgcgtc atgcgtgggt ttgaagggtg 300
tctgcttgca atattacatc ataatctgtg actgatgcac tgatgtct 348

<210> 51900
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-E3

<400> 51900

cccacgcgtc cgcaaccagt cctcacataa tcattctcat tcaactcactc tcttggtatga 60
ctgtactgaa gataccatgg ccaagtcgac cgcgatgttt gtagccgccc tggccctggt 120
ggtggtgatg gcgacgacga gcacaggcgg tggcagggcg gcagcggcgt gcgatcccaa 180
gccgctggtg gtgtgcgac cggcgttcat ggacggagcg aaaccgcgg cagcatgctg 240
ctccaccctg cgtgcgcagg aggcattgct gtgcgtgtac gccaaagacc ccaagtttgc 300
aaaatacatc aacaaccca acaccgtcaa aacctttacc tcgtgcggca tagccatccc 360

caaatgctaa gcaagcgctc tgcgtcgtcg cttegttgc tcttgcctn gtgtgtaaca 420
tatccagctt a 431

<210> 51901
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-C6

<400> 51901

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ggtgctggac aacctggggtc gtctgagcca gcagcacggg ctgtcaagca agggcgccaa 120
cgaggtgctc ctcgatcatc aggcctacaa gacgtcgcg caccgcgcgc cctaccgggc 180
cagcttcatg ctgcccagc tcaccgggtc ctacgccttc gtcctcttcg acaagtccac 240
caactccctg ctagtgcgat ccgaccccga gggcaggggtg ccgctcttct gggggatcac 300
cgncgacggc tgcgtcgctt tcttcgacga catcgacatg ctcaaaggct catgcggcaa 360
gtcgc 365

<210> 51902
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A8

<400> 51902

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caagatccag aacagggagg gcatccctcc ggaccagcac cggctcattt tggccggcaa 120
gcagctcgag gactggcgca cgcttgccga ctacaacatt cacaaagaga gcaccctgca 180
cttggtgctg cgtctcaggg gtggcatgca gatcttcgtg aagacactta ctggcaagac 240
gatcaccctt gacgtcgagt cctacgacac catcgacaat gtcaaggcca agatccaaga 300
caaggagggc att 313

<210> 51903

<211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-A9

<400> 51903
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 atgggggcgc gttttacctt gcactcagtg ggcttgagga ctacatcaac aagaacactt 120
 cctcttccaa taatgcagcc ctgggagctg ttctcaatca gcagttcgtc atacagctag 180
 gcctgttcac agctttaccc atgattattg aaaattcact tgagcacggg ttcctcactg 240
 ctgtgtggga tttcatgaaa atgcagctac agtttgcac tgttttctac acatttctca 300
 tgggaacaaa gacacactat tatgggagga caatccttca cggaggagcg aaatatcgag 360
 ccactggcag aggttttggt gtggagcata agaagtttgc tgaaaactat angctctatg 420
 ctgc 425

<210> 51904
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-007-Q1-K1-B1

<400> 51904
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 cttccccgtc ttcacaaac ccatgaccca gtcccatgtc accggaggct tctggctggg 180
 cctcccaa at catttctgcc ggaagtacct gcccaagcgt gacgagacga tcaccctgct 240
 ggatgaggat gacaacgagt cctacacgct atacctcgca ttgaagcgag gcctcagcgc 300
 tggatggaga aggttcgcta tccagcaca gctgggtgat gg 342

<210> 51905
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-007-Q1-K1-B11

<400> 51905

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gatgtatata gctatggagt tgttctactt gaactactaa ctgggaggag gcccgttgat 180

atgtcacagc cctctgggca ggaaaaccta gtgacttggg taacacttct ttcttttagg 240

agtatactat cttcagttcc tgtgtgattt tacagctaaa ttggaatatt ttaacgtgat 300

gactctcaga cactctggat tgtgtgtgca tacgttgttt ttatgtatgt gtgggcagct 360

gacaactgga atttaaactc gaaattgctc gtatatatat atatatatat atatatatat 420

atatata 427

<210> 51906

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B4

<400> 51906

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tctgggtcttc ctccaatgtc tgaagctgag gctcatgctt ttgaagtcaa ctcttttgac 180

ctctacaaag aattatcagg gcttgttgag ttaggaggca tggacaataa cttcaacacc 240

agcaatgtgg aaaccacaga ttaccttgtg ctgccacctg acagagaatt gtccacggat 300

ggttacatgg aacttaatga tctccttgct tctgattcaa gcttcccat cccagtgaa 360

tttcctgctc aggacaatca atctatgcag tctcctctgg ctgagtacaa tgtgcattat 420

gatgt 425

<210> 51907

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<212> DNA

<213> Zea mays

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<400> 51907

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 aaccaaataga agcacgggtg aatgttccag atgaacgggt tgattggctt tgcaaacttt 180
 acaagccaaa gagtgaggtg cctgcatatc ttgaagtaac tgacatagct gggcttatta 240
 gaggtgctca tgctggggat ggtctgggca atgcattcct ctcacatata cgtgctgttg 300
 atggaatctt ccatgtccta agagcatttg aagacgcaga aattactcat gttgacgata 360
 cagtagatcc tgttagagac atggaaacta ttagtgaaga gctcagacta aaagatatag 420
 agttcatgaa aa 432

<210> 51908
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-007-Q1-K1-B8
 <400> 51908

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 ctaataggggt atgcattagg aggtaaaatg catatgagag gggatatgca aaatacagta 180
 ttgatttgca tatgcatgat ctgttgagg aatctatact atatgttttt tttgt 235

<210> 51909
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-007-Q1-K1-B9
 <400> 51909

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 gagatcagtt cttttcttcg tgtgcatttg cttcctgttc gtgtcgacgg cgagggcgga 240
 agggccctac cagttcttcg attgggagat cacgtacggc agtatcagcc ctattggatc 300

tctacaacag ggaatcctca tcaacgggca gttccccggg ccgaagatcg agtgccaaac 360
 aaacgagaac ctgatcatta acg 383

<210> 51910
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C1

<400> 51910

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 ggaggtcagt ctggttgctt gcctacattg cttttgtaac atcctggccg ctgcttggct 180
 ccctagcttt catcaccttc cggaaaaagt ccaggaatcc gttgcgagct aaatgaatca 240
 tacttatatt atgttattac aattacatca tgcaacatcc tctgagctaa aaaaaaaaaa 300
 aaaaatgcaa gaacaaaaaa aaaaaaagaa aaaacattaa caagctt 347

<210> 51911
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C10

<400> 51911

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 gtcccaggcg gtgatctggc caaggtgcag cgtgccgtgt gtatgatctc caactccacc 180
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 gccttcgtgc actggtacgt cggtgagggt atggaggagg gcgagttctc cgaggctcgt 300
 gaggatctgg cggcgcttga gaaggactac gaggaggtcg gtgctgagtt tgacgagggt 360
 gaggacggcg acgagggtga cgagtactag acgctctact ggcgcggcgt cgtcgggctt 420
 gtgtgccact t 431

<210> 51912
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-C2

 <400> 51912

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 cacgctgtca cgcaagggcg ccaacgaggt gctactcgtc atcaaggcct acaagactct 180
 gcgcgaccgt gcgccctacc cggtcagctt catgctcgcc cagctcaccg gctgctacac 240
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 ggtgccgctc ttctggggga tcaccgccga cggctgcgtc gccttctgcg acgacatcga 360
 catgctcaaa ggctcatgcg gcaagtcgat cgcgccgttc ccgcaaggct gcttctactc 420
 caacgccctc tggagggtca agtgctacga gaacc 455

<210> 51913
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-C3

 <400> 51913

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 ggagaacatt caggatcttg accagcttaa ccgcaagctc aaccagatcg atgatgaggt 180
 cgccatcttc catcatatgc aagccaaagt ccacaaatac attcacgaac gtgaccata 240
 cttcatatca tctgatgcta caagatcatg tatacaccag gccttgacat gttggaaata 300
 tagattatgc ttccacccca caataagtgc atcatcatgt ccaagcatgt tgaactatca 360
 acaaggtgac aatcttgact gacaaatctt tcattcaaa 399

<210> 51914
 <211> 422
 <212> DNA
 <213> Zea mays

The \mathcal{L}_∞ norm of the error is defined as

$$\|e\|_\infty = \max_{1 \leq i \leq N} |e_i|$$
 and the \mathcal{L}_2 norm is defined as

$$\|e\|_2 = \left(\sum_{i=1}^N |e_i|^2 \right)^{1/2}$$
 where N is the number of nodes in the mesh.

<210>	51915
<211>	429
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<213>	Zea mays

<400> 51915

<210>	51916
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<213>	Zea mays

22240

<400> 51916
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 cagatttggt caggagacca tcaagaaaca agtagcaagc atgtatttgt ggccgaagac 180
 actagaagta cctataatgg atccctcaaa agcatcaaaa aggcctgttg gaattctact 240
 tgtgaagggt gtgagagccc aaaatctgcg gaagaaggat ctgctgggta aatctgaccc 300
 atacgtgaaa cttaagatgt cagatgataa acttccatcc aagaagacaa ctgtaaagcg 360
 cagcaatctc aatccagagt ggggtgaaga cttcaagttt gttgtgacag atccagaaaa 420
 ccaggctctt gaagttaatg 440

<210> 51917
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H4

<400> 51917
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 taaaaaaca aaacaaaatc aaaaaaaaaag gcaaatttaa aaaaaaacat tctccaaaat 120
 accaacctaa ctacacaaac atcctaacc ataactaata tataatgaca ccaaaatt 178

<210> 51918
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H5

<400> 51918
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 agtacaaca agcgcttgcg gcgagcgtct tacaacaacc aattaaccaa ttgcaacaac 120
 aatccttggc acatctaacc atacaaacca tcgcaacaca acagcaacaa cagttcctac 180
 cagcactgag ccaactagat gtgggtgaacc ctgtcgcta cttgcaacag caggtgcttg 240
 catccaaccc acttgctctg gcaaacgtag ctgcatacca acaacaacaa caattgcaac 300

<210> 51921
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H8

<400> 51921

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 aggttatcat ctattggctt gcggaacaca taattgaacc gtcaggctta caggcagcta 120
 ttgctgacaa ctgctgttct tggatgaatat atcactggcg ctattctttt cgaacgagac 180
 cctttatcaa tcaactacag acggcaagaa gcttggtgac tgcttgaaag atcagaatat 240
 catgcctggc atcaatgttg acaagggttt gattccattg cctggatcca acaatgaatc 300
 atggtaccaa agtcttgatg gcttggcttc aaggcgtgct gactactata agcagggtggc 360
 gcgcttcgca tagcgcatga ctgttgctag catccatcgt ggtgcatctg cattatcagt 420
 caatgaatca tcat 434

<210> 51922
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H9

<400> 51922

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 agcagctcta gcatggcgag cggcggctac tactacgacc agagcgcggg ctacggcggc 120
 tacagctact cggcggcgcc gaggacgacg ccgtcccacc tcctggtggt cctggccacc 180
 gtggcgctgc tgggcccac gtcgctctac tcgcgctacg agtccgcggt ggagagcctg 240
 gtggaccagg tgcggttcgc cgtggtgctg tccccgctgc tgctcctgct cgcggtccag 300
 tactgggcgg ccacggccgg gtcccggcgg ccccgggcgg gcgcccttcc 350

<210> 51923
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A1

<400> 51923

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taagactggt gatcctgcaa agcgccctgc tccaatggcc agtgggtgca gaatagaagg 180

ctttgtgcgt gtcaaaaggg ttccaggag tggtgttatc tcagctcgat ctggatctca 240

ctcgtttgat ccatcccaga taaatgtttc gcactatgtg acacagttct catttggcaa 300

aagactttcc ccaaggatgc tgcatagaatt cataagactt actccctatc ttcgtggata 360

ccatgataga ctagctggcc agtcttatac tgtaagcat ggtgaggta acgccaatgt 420

tactattgag cactac 436

<210> 51924

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A10

<400> 51924

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gtgctcgcgc cttgacggat tgatttcggt gcgccgatgg ggcaggcggt cgcgaagctg 120

ttcgattcct tcttcggcac cagcgagatg agggttgtga tgcttggtct ggatgctgcc 180

ggtaaaacca ccatattgta caagctgcat atcggggagg ttttgtcgac tgttcccacg 240

attggtttca acgtcgagaa agttcaatac aagaatgtga tgtttactgt gtgggatggt 300

ggtggccaag aaaagttgaa gcccttggtg aagcactact tcaacaatac tgatggcttg 360

atctacgtag ttgattcggt ggatcgggag agaattggaa agccaaagct tgattcaggc 420

aataatcaa 429

<210> 51925

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-A11

<400> 51925

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ccctcctggc cgccgtctcc gctcgcctt tctcctacc cggcagcagc ggcacagcc 120
gcaggccact gggcgctgcc ccaacccgcc gggccggact gcgcgtggcc gcgcttaagt 180
acgaccctgc taaggtggca ccgcagaacg accgggtgct cgtccgtctt cagcagatcc 240
ctgagaaatc tgctggtggt gtattgctac cgaaatctgc tgttaagttt gagaggtatc 300
tgatgggtga gattctatcg gttggtgctg atgttagtga agttgaggct gggaaagagg 360
ttctnctctc agacatcaaa tgcta 385

<210> 51926

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A12

<400> 51926

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atggatacac aaaaggcggg tcatcttcat ttattctgat tactatcagt agttggttcc 120
tcgttatgtc ctggcttttc gcgccttaca ttttcaaccc ttctggtttc gagtggcaaa 180
agactgttga ggactttgat gactggacaa actggttact ttataaagggt ggagttggtg 240
taaagggcga caacagttgg gaatcttggt gggatgagga gcaggcgcat atccagacat 300
tcagaggacg tattcttgag acaatcctca gccttagatt tctcatgttt cagtatggca 360
ttgtgtacaa gcttaaaatt acagatcata atacttctct tgcagtttac ggcttct 417

<210> 51927

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A2

<400> 51927

ggcgaagtgc agcgcagtgt gccccgtctc ggaacagcgc ggaccaccag agcgtgcgcg 60
tccgtgcccc acccctccct ctctatccat ggcggtcccc cgcgggtgcc tcgggctccc 120

<210> 51930
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-A5

<400> 51930

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ttcacgtact ccggccatcc ggttgccctgt gctgtggcca ttgaagctct gaaacttgat 60
cgcgaaaggg acattcccgg ccatgtcaag caaatcgccc caaagttcca ggacgggatt 120
agggcgctgg cagacagtcc gattatcggg gagatacgtg gcttggggat gattatgggg 180
accgaattca caaacaacaa gtcaccgact gatctgttcc ctgccgaatg gggggtcggt 240
gccatcttcg gcgaagagtg ccagaagcgc ggcattgctg tgagggtcgc tggcgacgcc 300
atcatgatgt cgccgacgct gatcatgacg cccggcgaag tcgacgagtt ggtgcgcac 360
tacgngaag ccctcaaggc cacggangag aggggtggcag ccctgcagtc caagaagaac 420
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<210> 51931
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-A6

<400> 51931

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ttcccagcgg caacgctggt gtcagcgtct gccaggtggt cgtcgtgcc gtcaggaacc 180
ggcgcgtcag agctacggtt cgagcgcagg atatgtacga ccccgatacc gatggagatc 240
gcggcaagaa gggggtcagg aagatggtgc acacaccaga gtacagggtg ctggacaagg 300
cagcggtgat caaagatcca gcgtctgcgt tccgagcacc ggcagggtcaa ccacagggcc 360
attcctnctn caagcccaac ccatggaggc tctgcacact g 401
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<210> 51932

<211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-H2

 <400> 51932

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 gcaaattata caaaaaaaaa caacccaaca aaaacttta atccaaaaca ctctctcttc 120
 aataaccaa cttacatata cttacctgcc actccatacc catcttttag acctaccaa 180
 atttaattaa atcccacctc attatccaac gtactacact gcaaaatcct tagcattccc 240
 caaattaatc acctttccac aaatccccc 269

<210> 51933
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-F9

 <400> 51933

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 aggctactct caagtacaac gtggctatta agtgtgagac cattactcca gatgaaactc 120
 gggtaagga gttcaatctg aaacacatgt ggaagagccc aaatggcaca attaggaaca 180
 ttataaatgg cactgtgttc agagagccta ttatatgcaa aaacgttcca agacttggtc 240
 caggatggac taagcccac tgcattggaa ggcattgctt cggatgatcaa taccgagcta 300
 ccgatgcagt tctgaagggg cctgggaagc tgaaactagt ttttgaggga aaagaagaac 360
 agattgatct ggaggtattc aacttcactg ggtgctg 397

<210> 51934
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-G11

 <400> 51934

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gatgtatgat cacaacacac agagaccgan gggctttgga ttcacacac atgattcaga 360
agatgctgtg gacaaagccc tgcacaagag ctntcatgag ctaaata 406

<210> 51939
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-H1

<400> 51939

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accaagtctt gcggccacgg ctctctcgat cccgagaggt ttgaactacg agcggatgag 180
gatgccatcc cggttcagcta cagccagctc gacaccatcc tgaggatgtt tcggatccct 240
cggggggtcca agaaggcaga gcaagtcgcc gncacgctcc ggacatgcga ggctgagtcc 300
ncagaggctc atgcctgcgc cacctccgag caggcggcgg ccgacttcgc tgctnctcg 360
ctcgggggtca gggccagcaa gctggtcgag ctggtcacca ccgtccatgg ggngaaagac 420
gccactagat acgtgg 436

<210> 51940
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-H10

<400> 51940

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gggaattctg accatgcaga aacttatgaa gaagtttccc caggatttgg agactgccga 120
cgcaagcctt tctgcttctc agaacactgc agcatcggtc gttccttcca caccgacttc 180
caggacttca ccatgcaagc ttgaggggag gaagtctcgc caaatgatcg cgagcgggat 240
tctgctggtt ggaagcatcg cttgtctatc tcgaggccga tccaacctcg gggcgcagct 300
cgcgatggcc ttcttctga aaaaggcctt caagcaagag aggcaatcaa gctcctcatc 360

gacatgaatg gtgnaaacat acgtgactag atgc

394

<210> 51941
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-H11

<400> 51941

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accgccgccc catcccattg ccgccagtgt ctgctcgatc cgatggctcc cacgaagaag 120
tcgaagaaga gcacagagag catcaacaac aagctgcagc tggatgatga gagcggcaag 180
tacacctgn gctacaagac cgctctcaag acgctgcgca actccaagg aaagctgatc 240
atcatcgcaa acaactgccc tccacttagg aagtctgaga ttgagtacta cgccatgctg 300
gccaaagtta gtgtgcacca tttccacgga aacaatgttg atcttggcac tgcctgcggc 360
aagtactaca ggggtgtgctg cctcagtatc atcgacccan gtgactcgga catcatcagt 420
acc 423

<210> 51942
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-H12

<400> 51942

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tgctcgttgc cctcgctctc ctggctctcg ctgcgagcgc cacttcacgc atacaagccg 120
cggctgcggc tgccagccac cgnccgggt tcctctaccg ncgccggtgc atctgccacc 180
tccggttcac ctgccacctn cgggtgcatc nccaccgccc gtccacctgc cgnccgggt 240
ccacctgcca ccgncgggtcc atgtgccgnc gncggttcac ctgccgncgn caccatgcca 300
ctaccctact tcaaccgccc ggcctcagcc tcctcccccag ccacacccat gcccggtgcca 360

<210> 51943

1. The first step is to identify the problem. This involves understanding the current situation, identifying the problem, and determining the scope of the problem.

<400> 51943

<210> 51944

<223> Clone ID: LIB3079-006-Q1-K1-E12

<400> 51944

<210> 51945

22253

<400> 51947

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cgttgctgcc ctcacctctg caggcccagc gtcgagcgga gatccaatcg gaaattgaac 180
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accaggtggt tccaggtgtg agtcagatgt catcctcggc gcagacactt gccagtgggt 360
tcctggctgt catatcagtt aatctagtga tcggctntta catattcatg gcgatgaatg 420
agactccaca cc 432

<210> 51948

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-E7

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ttccaaaatg cttcttcatt catggaacca gtaaattctag aagctttcag ttttcaaggg 120
gcacaaagtg attctgtttt gaacaaaaca acacatccaa atgggaatat ctcagtattt 180
gacagtgtcg ccttggcatc actacatgat agcaaagagt ttatcagtgg taggctcccc 240
tcatttgcta gtgtccagga aacaaacgta gctgctagtg gtttcaagac tcagaagcag 300
gagcaaaatg cagtgtgcaa cgttcctatc cctacgttca ctgcacgtaa tcaaattgca 360
gttgctgcaa tgcccggatc actgatccct caaaagattc cttcatggat caatga 416

<210> 51949

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F1

<400> 51949

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aaaaaaaaa aaaccgacaa atttaaaaaa acccaactca acaaaccat acaacaaca 120
 acatacatat tacaaaataa ccacctacaa acacttcact aaatcccaat tacacacacc 180
 acttactcaa aatcccttac tttaaaaaa cttccattac ctaacaaaaa atccccctaa 240
 caaaaacccc tttaaacaca aaaaacccta cccaacccc cttaccaac ctttccccac 300
 acccaattt 309

<210> 51950
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-F12

<400> 51950
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 gtttttaact tggcccttaa taaaattttt ggttgtttaa taatcttaat ccataaacta 120
 agttggtatg tagtgacggg taagaaatac tgtggtggtt tggacctcag ttattggcca 180
 gatgaagggc gaaggccatt atcagatcct cgtccacctt tgggctattg ctgacaagtg 240
 gacgagtgtc gtacacctct ccaattcccc ctttcaatgt ggtcagtgtt gaatcatcta 300
 cgtcatacag tgagcaaggg catactgatg aggaagggga tgacatggat ttttctcgtt 360
 cgagcatcag gttttgtgcg ttgattatgg tgtgctcgtt ggtgagactg cgacgtnctc 420
 gttcaagtca gctgataatc gtgtccttca agagcaacta ctacag 466

<210> 51951
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-F2

<400> 51951
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 gagaggacca tcaaggactt gggaaaggcc aagggtttga ggaggagcag caagggcgctc 120
 cacaacagga aggagatcat gtcccagtcg gctgcgactc tatctcgggt tccaggacca 180

gtatgcacta aaatggacgc ccaagatgca tccggtctcc gattgcgacg gactggacat 240
 ggttggaaaag ataacgagat taaccacccc aactgggttcc accctaaaat tcatccggag 300
 tcaacgggaa tcgtcgaaac aagtcagcgt tcagattctg ttttgggtgct gcgacaccgt 360
 ctgttngtt gttgggtcga gtatcgcgtc ggagcccatt angggcgagt ccagngctac 420
 gcacgcncta atact 435

<210> 51952
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-E10

<400> 51952

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 aggattacac tgggagagag gtcaacgtcg acaatttctt cgctgttctg cttggcaaca 120
 aaactgctct caggggtggg agcggcaagg ttgtggacag tggccccaat gaccatata 180
 ttgttttcta cagtgaccat gggggctctg gcgtccttgg aatgcctacg tatccatata 240
 tctatggtga tgacctcgta gatgtcctga agaagaagca tgctgccggg acctacaaaa 300
 gcctgggtctt ttatcttgaa gcatgcgaat ctgggagcat ctttgagggc cttctgccga 360
 atgacataaa tgtgtatgcg accaccgctg caaatgcaga ggagagtagc ttggggacgt 420
 actgccctgg c 431

<210> 51953
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C5

<400> 51953

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 tacgatggcg atcggcaccg tcatcatggt ggccactctg ggttcaatgt gctactgcat 180
 tgtcgctcac aggatggagg agaagagcat gaggaggatc aggaggacct ccacgagcca 240

gtcgtggtcc atatcgatcg actccgaaac ggagctgatg aacagcgagt acaagaagat 300
 gtacgccatt taggataggc aacggccatg cttgccatct gagtcctgta tatactggta 360
 cccaaagtcc atggcattgg attgactgag ctatatTTTA gtccgtagac atggcacctg 420
 tatgtaactg 430

<210> 51954
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C6

<400> 51954

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 gagttcttgg ttgacctggc cctcttcgga ccacctccaa ggctcttggg gtagcttgcc 120
 actctcacca atcaagtttt catgtctgat ctcgacattc agatcccaac tgccttcgat 180
 cccttcgctg aggccaatgc tggggactct ggtgcggcag cagggtcaaa ggactacgta 240
 cacgtgcgca tccagcagcg taatggtcgc aagagcctga ccaccgtcca gggattgaag 300
 aaggagtcca gctacagcaa gatcctcaaa gatctcaaga aagagttctg ctgcaatggc 360
 acagtgggtcc aggacccaga acttggacag gtcattcaac tccaggggtga tcagaggaag 420
 aacgtctcga 430

<210> 51955
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C7

<400> 51955

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 gcggcggcca tgggtgggcgg cggcggcgac ccaaggccgg aggacgagcc cttctccgac 120
 ggagacgcca cggagtcgga caccgacgag tctcctccgc aggggattag tgctcgccgc 180
 cccggcgcca cactaaccg gatcctgact cgctcgcggg tgctcgggaa cccgagcccg 240
 ctggccgcgg ccaccgcggc ccccggggtg tgctcctcc gcttcgctg ggagtccgcc 300

<210> 51958
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D1

<400> 51958

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 tcggcagggc cccgtcggct gctaccgcga cgggcttcta ctcggtgcac gtgcaggagc 180
 agacggagct ggtgcagaag gcgctgcagc gcgacccct caactaccct ttctgaaaga 240
 aacgaggccc ctgtagattc ttggaattgg ggaccttttg aatttgatat aataccaata 300
 tagagagaac atgccttaaa ttttatctgt gcagccattt ggtgaaataa ttgtttcgac 360
 tctgcagtac cgcataaagc aaaccgttgt aagtttgg 398

<210> 51959
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-D11

<400> 51959

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 aagctaagac ccccgccaag gcgaagcccg ccacaaagcc caagcccgcc gcgaagccga 120
 aagccgtagt gaagccgaag acaccgcca agcccaaggc caagccagct gccaaaggcga 180
 agcccaagac cgtcggcgct aagccgaagc cacttgctaa gaaagccggc cgccccgcca 240
 aggcggcgaa gacgtcggcc aaggacacgc cagggaagaa ggcgccggtg gccaaagaagt 300
 ccgctgctgc cgcgaagaag gccctgcca agaaggccgc tccctcgaag aaggcggcga 360
 ccccgctgcg gaaagcgccg tncgtaagg ccaagaagta aagcggccaa gaaggggggc 420

<210> 51960
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D12

<400> 51960

gcgtcttctc cggcggcgac cagtactatc taccatgggt aaagcgagtc ggcgcgagat 60
gcattacgca gcatgtgtac tgtgcgctg caaatccaga atgacgtagc tctgacgtgg 120
gctcgcaata ttgtcgcgag ctctttacaa tcatgatgat aactatgagg aataaataaa 180
acagaaaatc gactgaacac ataggaaaac aaagtgtatc aaaatgctga actcaataat 240
aatgcatcta catgcttatc taaggcacgt ccattttaga gggcc 285

<210> 51961

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-D2

<400> 51961

ccgacgcgtc cgcccacgcg tccgctcctt cagacctcgc gctccgccga gaagatgtgg 60
aagatcgact cccacctggc gtgcgccgtg gccgggatca tgtccgacgc caacatcctc 120
atcaacaccg cccgcctcca cgcccaacgc tacgcgtctt cctaccagga acccatcccc 180
gtcgagcagc tcgtccagtc cctctgcgac accaagcagg gatacaccca gttcggaggc 240
ctncgcccct tcgggggtctc cttcctattc gccgggtggg acaagcacca cggcttccag 300
ctctacatga gcg 313

<210> 51962

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D3

<400> 51962

taagtaatta aagaatggca ttaacagttt tctataaacc acttaaaaaa ttataataat 60
ccgacaattt caccactttt tagagagcat caaagattct gtcttcccaa ctgagcttat 120
accctttttt gacaaatcta tactgaatgt caatcttgtc cctactgatt aagaatttac 180
tgagccattc aagcattcta ctcttttga aaggtaacta ataaacctca tcgaaccttc 240

tgataataat acttccaatg ctactttctta ttctttctgct tccactagta caactgcttc 300
taggactatc acaatgaacc attcttttacc atcaaccttc ctacaaatca cgtttctcaa 360

<210> 51963
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D4

<400> 51963

caggggtatct ctctctgaca gaagttcctg attccctcgg cagtggcgtg gttgcctagg 60
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gtgtttcagt agcaatggaa aaggggtgagt gagcctgtgt tgtgttacia gcatcccagt 180
tcaatgggaa aacaaacaca taagacatga accaactgaa cagcttgatt taatggaaaa 240
tgctaacaca actaacatga caaataaaaa acagatatata caagaacaac agat 294

<210> 51964
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D5

<400> 51964

ctgctgttca tattttgtca ctcaaaatat tcatctggtc cacactttgt aacagttgac 60
cagtcgtgaa ggacagccga gccaatgttg cgtttgatct caagaatgac gtcaccaag 120
ataagatggt ctcatatgag ttcatcccat taactttaat gggatgactt tatcctttct 180
gttgactaa tgtgcttgta agatgagaaa gtatctagat ctttagtggt ttgggtgatt 240
aatgccaaca caagattatt gtaactaaca tgtgtgttta caaagataaa ttaatgtag 300
gtcacaatga tgaaaaaaaa aaaaaaaaaat aaaaataaaa ttaaaaaataa taaacataaa 360
aa 362

<210> 51965
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D9

<400> 51965

ccgacgcgtc cgaacgactt caagcattca ggggagaggt accgctcctg ggacgccggc 60
cgacaggacc gattcgtgag gcgattcgcc gactcgctcg gacacccaaa ggtcagccag 120
gagctcaggt ccatctggat agacctctc gccaaagtgcg acgcgtcgtt ggggatgaag 180
attgccaccc ggctcaacat gaaggcaaac atgtgatgct tctgctgaat agaataataa 240
tgaagacgca tgcattgctg cgccaggaac aagagaaata atacaagacc accacgcatg 300
ggcatactcc atatatatat gtatagcccg tgcccggtgc cgcttttgta ccaatacaag 360
ccaagactag tggatgtatt attattatta ttattgcgtc atcacatata tgtaccct 419

<210> 51966

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-C4

<400> 51966

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gttcatatgt tcggcaggct gctgtctatg gtgtgggtgt atgtgccgag tttggtggtc 120
atgttttttcg ccctctagta ggagaggcct tatcaaaatt aaacaatgtt ataaggcatc 180
ctgatgcacg acttcctgat aatatcatgg catatgacaa tgctgttttcg gcgcttgga 240
aaatatgcca atttcacgg gatggtattg atgcagctca ggttgttcca gcctggctta 300
gctgcttgcc tataaaagac gacaagggtg aagctaaagt tgtacatgga cagctttgct 360
ccatggtgga aaggtcggat g 381

<210> 51967

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B10

<400> 51967

ggcgccgaca acagcgtagt gtagtggtgt tccggagagg gttggggaga gtagtaggga 60
tccgcaatgt cgacggagga ggctggtgtg gctgaagtcc cggtgaccga ggtgccagcg 120
gaggtcccgg cggcccaggt ggccgaggcg cccaaggcga agaaggcgcc caaggagaag 180
aaggcgcta aggagaagaa gctttccgcg gcgaagaagc cggcggcgca ccctccctac 240
gctgagatga ttgtagaggc gatcgctgcc ctcaaggaga ggaaggggtc gagctcggtg 300
gccatcagca agtacgtcga ggggaagcat ggcggaagc tccccaccaa cttccgcaag 360
cagctcactg tgcagctgaa gaagctcgc 389

<210> 51968

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-B11

<400> 51968

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gtcaacaaaa ggagaaggaa tatgcttaaa gagttgatta aggtcattca acaggagcac 120
catagctaca aggatcccggt aactgaattt ctggaatgct tatatgttaa ctatgattnt 180
gatgggtgctc aacaganact catagagtgt gagcaggtta tactgaatga tccattcctg 240
ggaaagcgca ttgaagaggg aaattttgtc agtggttcctt tgagagatga gttccttgaa 300
aatgctaggc tttntatttt cgagacatac tgccgtatcc atcgggtgcat cgatatcagc 360
atgcttgctc agaagttgaa catgagctac gatgaggccg agttgtggat catga 415

<210> 51969

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B2

<400> 51969

ctgaagggtgc tggctgcaga aaatgagctt catggcttca ataactagct gtatgatctg 60
cagattcttg gactgttgag ctgtttaacg gcagatatta acagttgcag ccttacaggt 120
gcttcgtcaa atgttgaggc attgctgctt aataactgtt tgggggatag agtttggggt 180

atacactgta ggtgaatctt cacgttgata ccacaaacaa tgtgtggaag tttcaaaacc 240
 attaaaaaag aagatgtgct acaatccaat ggcgtcaa at caaacaaaaa gagtctgctc 300
 atgtactaaa tgctagtagg ctgctgatga agcttactat aggggaattca aatagggcca 360
 acgaattcta ttcctcatc 379

<210> 51970
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B3

<400> 51970

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 gtaatgggag atcaagccaa ggggggtggag gttaccgcag tacttaccgt ggtggtggtg 120
 gagctggtag tggcagcagc ggcagcgggtg ggggtggtta tgggtttggt gatgcttatac 180
 gatctgctgc agcgagttat ggatatgatg gtggcgcacg agcaggatat ggctatggta 240
 gagggatatg ctatggaggc aatgctggct ttgcgtctgg ttttggtggt gggatatggtg 300
 gatccatgta tggaggcgca tatggtgcat atggggcata cggtggtggt gcttatggag 360
 gtggtgccta tggaggtggt gcatatggaa gcagcgcta tgggtggcgcc ccaggtggtg 420
 gttatggcac 430

<210> 51971
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B4

<400> 51971

agggcgtgca atcacacaac cctcctggtc aatgtcgccg acctcaactc gtcgccgtag 60
 cgggttgtag ctgggatgtg gggcagcaac aagaaaccga acctcgactt caccctagga 120
 cggatataat ccgcactgtc tatctacacc tcgaccatca gctgagccaa ccgagatcga 180
 tcgatcggcc ggccatggat acgaagctag atacaggcta gagctagctg cactgcatac 240
 ataggttgat ctgcttctaa gctgccatgt ttatgatctg atggagcatg tgcgtgcggt 300

tagaaaagac cctggaacaa cagctgcgcc aactcctgac aacaatgggt gtgccaaaac 420

<210> 51974
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-B8

<400> 51974

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gttcgaagtt gtcaacgctg aatgaaaatg aaccaatgac tgatgaaaac cttagggagt 120
ctatggacat cgatcattct ctctctgata ctgcaaattg taggaggtgg agaagtccaa 180
atgaacagct tcagcattgg cagaacaaca ggagaaaatt ggcattttca acagtcggga 240
cacctgatta tattgtccca gaggttctac taaagaaagg atatggacta gagtgtgact 300
ggtggtctct tggtgcaatc atgtatgaaa tgctngttgg ttatccacca ttttattcag 360
atgatccact agttacatgc caaaagattg tgcattggag aagctatttg aattt 415

<210> 51975
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B9

<400> 51975

ctgccacaag cacctgctat agttgtgtgg tgcaaacacc aaaatgttgc ctgccaaagg 60
gtgatttggt ttctgatag tgtactgcgc agtaacattt tcgctaggtc agatagctgt 120
tggcgaggca tgcacagtgg atcagagggg caagatcaca acggactgca gagagttcat 180
caagctgaaa ggccccgtca cagccccgtc gtacaccgac gactgctgcg tcgccataag 240
agcggtgccc aatctcgaca tggagtgcac cattcgcttg ctctccaata aacagaagaa 300
gaagtacgac gtggacaaga tccggcgggt cggcagcgtc ctctgcaatc cacatccggt 360
gatgacgtaa aatgggggtgt ggcagtagtt tctgatggag tgcacgc 408

<210> 51976
<211> 381

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-C1
 <400> 51976
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 cctcctttta caccggctgc gggctcgcct cgttctctgc gtcccaccgc aaccgctcct 120
 tcggccgcgc gcgggcgtcg ccgtcccgcg cctcgccctc cgcgactta cgctcgctgt 180
 cgtggagcgt gtcccgccacc tggtcggcgg cgcgccagct gcaggccatc ggagccggcc 240
 tggccgcgcc gcgcgccacc gaggcctcct gcggcttcgc cgcgcccgcc tacgccatgg 300
 gctgcctgct ccacctcgcc gectgggcgc tcgtttgccc cgtgccgtgc ccggactcgc 360
 gccgcgcgct gcaagcgcac c 381

<210> 51977
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-C10
 <400> 51977
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 gagaaatacc atatgatggg atttattatg atcctcctga agaggtaaag tatgtgttca 120
 ggcattgcga acctaaacga ccaaaatcat tgcggatata tgaaacacat gtcggaatga 180
 gtagcccgga accgaagata aacacatatg taaactttag ggatgaagtc ctcccaagaa 240
 taaaaaaact tggatacaat gcagtgcaaa taatggcaat ccaagagcac tcatattatg 300
 gaagctttgg ataccatgta actaattttt ttgcgccaag tagtcgtttt ggtacccccag 360
 aagaattgaa gtctttgatt gatagagcac atgagcttgg tttgctagtt ctcatggatg 420
 tg 422

<210> 51978
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-C11

<400> 51978

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agatgaacta gaagattggg ccatgggtaa gcctcagagt gtgcatgctt taaatgcgga 120

agaatttgag agaagtacag cagcagcagc atctgcagct gctatgaaag aggccatgga 180

taaagcagag gcaaagttca aacatgcaaa ggaggtacga gagagagagc gtgatgcgaa 240

gattaaaaat agagaacaac gggaacaaga tagtgtaaca aggtcgtatc cccagaatcg 300

tgaggacaaa gagagaaagg aaggactaga acaggaaaga gagatgaagc aaaatgagga 360

aagggaaaga gagcaaggaa gacttgaaga ggaaagagaa cttgagcgac ttagaaa 417

<210> 51979

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C12

<400> 51979

atgtattatg caaaacattg tccacacatg ttataggctg aaatcggaac tttcgtgat 60

agtttttagac taaagaaggg cgactagcta caagtgcaga atcaactacc aaaactgc 118

<210> 51980

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A9

<400> 51980

caggatcact ggaaactatg gtgaacatcc tgatgacaaa tatgacagca ctgctggggc 60

tgtgataagc gatattacag tcaacgatgt tggtggcggtt aacattgggg ttgctggtat 120

attggaaggc attcagggcg acaatttcag caacatttgt ctagtgcaat gtttccgtca 180

gtgtgcaatc tgcacatcca tggaattggt cacttattga acggtattcc aactcgggtga 240

tcccagaatc atgcgaacag ctcagaagca attgtagaca gacatccatt tgctacgatg 300

gaagcaattc ttcactgatg agcgtgcagt aaccaagaca taca 344

THE **NEW** **YORK** **PUBLIC** **LIBRARY**

<400> 51981

<210>	51982
<211>	377
<212>	DNA
<213>	Zea mays

<400> 51982

<210>	51983
<211>	418
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H5

<400> 51983

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gtccccagtc caccggaaat aattgccttg atcagcaacg atggcgggag atccggccgc 120
cggggtcggc ggcaacgccc accccgcgtc ggggagcaag agctcccgct cgtcgacgcg 180
gcaccgtcag ttccgcgacc gagccaaggt ccgagtcgac gacctacaag agatgttctg 240
cggcctccaa tccgctcgca aggagagccg ctccgccgac gccgctgtcc tcgaggagca 300
ggtcaccag atgctccgcg agtggcgtgc cgagctcagc gtcccatccc cggcttcctc 360
tctccagaac tcgcagggga acaaccggga ggcttcggat ccaccgtcgg atacgctg 418

<210> 51984

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H6

<400> 51984

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gaagaagcat cggcagcatg tcggagggga ctgccaaactg cgtggacatc ctgatcgcca 120
tcatectgce tccgctgggg gtgttctca agtacgggtg cggccacgag ttctggatct 180
gcctcctcct caccttcctc ggctacatcc ccggcatcat ctacgccatc tacgccatca 240
ccaagaacac ctagctagtc atccttgccg acgacgatcc atgtctctgt atctgtgtct 300
gttcatatgc ctgatgccga cttgtgctgg atgtagtgc ttgaattcag tcgtgttcct 360
gttttgctac cgtacccacc ccattgcatca tctgtcaccg cgacgcaata atcatagtaa 420
taacaagttc agatt 435

<210> 51985

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H7

<400> 51985

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gagctactgc ggctgcttgt ctctcgaggt tctcctcgaa aggttagctt caacctgacc 120
gccagttggg ccgtagggcg tacaaggacg ctgagtgcgc atctactcac caagcctctg 180
ccgtggtgcg c 191

<210> 51986
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H8

<400> 51986

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gtaggtctag tttctttcgc ttttgtaagg gcttttagaga ctgaggttta cttgaagata 120
caatacacat gtgtgttgag gaacaagtgg ccatgttttt gaacacagtg ggacagaacc 180
ttaggaatag gttggtggga acaaattatg gtagatctgg tgagactgtt agtcgctact 240
tcaacaaagt gcttcgtgct attggagagc tacgagctga acttattagg ccaccatcat 300
tagagactcc atccaaaata gcatgaaatc caagatggga tccctacttt aagggtgtgat 360
attcagctat tcaatattct ctttcaagaa ttttactat ttaaaccat aagaccctta 420
attgtatttt ggcttgtatt ggataaacat aggattgc 458

<210> 51987
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-H9

<400> 51987

gggatgcaac acaaccagaa gatcaccttt cctggtgaag ctgatgaagc gcctgatact 60
gtcactggag acattgtatt cgtcctccag cagaaggatc actccaaatt caaaagaaag 120
ggtgaagatc ttttctatga gcacaccttg tctctgaccg aagcactatg tgggttccaa 180
tttgttctta cacatctgga caacaggcag cttctcatca aatcagaccc tgggtgaagtt 240

gttaaactg accaattcaa ggcgattaat gatgagggga tgccaattta ccagaggcct 300
 ttcattgaacg ggaagctgta catccatttc acgggtggagt tccctgactc gttggcacca 360
 gagcagtga aggctctcga gacagtactt ncaccaaagc cttcatccaa gctgacagac 420
 atggagatag atgaatg 437

<210> 51988
 <211> 226
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-A1

<400> 51988

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 ccggccgtca catcagccac acgccgncgc gccagtcgcc gcacgagggg gcccgatgatg 120
 ccgaagaaga tgggcgtgaa ctccaaggcg gaggcgggtcc gcgaccgccg ctccgccgcg 180
 gagggcgacc gccgcgaccg ccaggagcgc gccaaaggagg agcagt 226

<210> 51989
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A11

<400> 51989

gtactcggtc cggattcccc ctcgagcctg cagaaagggtg gttgttattg tgggtgatga 60
 tcctgatggt ctacttattg atgcaaagtc tggaaagaca gttcattcca taaaaggaca 120
 tcgggactac tcatttgcac cggcttgaac ccctgatggg caaacatttg ctaccggcaa 180
 ccaagacagg acatgccgaa tctgggacgt aaggaacctt tcaaaatccg tccatgtggt 240
 aaggggtaac cttggagcca tc 262

<210> 51990
 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A12

<400> 51990
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 ctggtgtccc tctttatgga tgcgtcgtc tattaaccat ctgtggtttg tgtgtcatga 120
 atcgtggttg tggttcggtt ggtttaatgg acctgttggtg tcctctgtgt tgtacccaaa 180
 actcttctgc agcagtatgg cttgaatcct tatgaagttt gatatttgaa ctt 233

<210> 51991
 <211> 61
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A4

<400> 51991
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 a 61

<210> 51992
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A5

<400> 51992
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 agtatgagac aaggggaaat ggggaaggga gcgcaaggga gcgatgcggc ggcggcgggc 120
 ggcgaggttg aggagaacat ggcggcgttg ctggttgcca agaaccacct caagatcatg 180
 cccttcaagc tcccgcccggt cggcccttat gatgtccgcg tgcgcatgaa ggcagtgggg 240
 atttgcggca gcgatgtgca ctacctcagg gagatgcgca tcgcgcaactt cgtggtgaag 300
 gagccgatgg tgatcgggca cgagtgcgcg ggcgtggtcg aggaggtggg cgccggcggtg 360
 atgcacctgt ccgtgggcga ccgctgggcg 390

<210> 51993
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-A8

<400> 51995

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ccgacgcgtc cgcaagggg catggctctg gtcagattgg cgtttcccgt gttcgtgttc 60
ctcgcagcgg cggagttcgc ggcggggacg cggtcgccgt cggctttcgt acaaaacgcc 120
atctactcca accgcatac catcttctcc aagacttact gcccctactc catgcgtgct 180
aagcacatat ttcgagacct taaggaagat ccatatgttg ttgaactaga tacccgagtg 240
gatgggcgtg acattcaaag tgttctcctg gacctagttg ggcgtcgtac tgtgccacag 300
gtgtttgtca atggacagca tattggtggc tcagacgata cagtaaatgc gctttcaaat 360
ggacagctcc agaaacttct cggaagagt cagtcacaat gatgggtcgc tggacaagct 420
ngcactgtca agaac 435

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<210> 51996
 <211> 237
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-F6

<400> 51996

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tcgccttctc tcgcgagaac cgagaggcta gtaccgcata cagtggntgg ggcttcggta 60
tggggcggaa gcgaatggcg ccctgggcga acgccgctat aggcgtagga aaccctaaa 120
ttacgacggt cgatgactgt tgaagatgtn gccgacgccg acttcggata ccggaggaaa 180
gcccgaagca gctgaaggtc ttccgctgca actggaagga tcccgccgga aggtgtt 237

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<210> 51997
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F7

<400> 51997

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gaatacccca ccgacccac tcatacgact ggataaccat atctacaata tttcctttaa 60
cactgtatcc tttaatccaa gggcgagatc taatacacac aaggcatcgc ctacttaac 120

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<210> 52000
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G1

<400> 52000

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ttgaggtgga agtatgatgg tccatccgat tctttcaaag ctcttattga catggcagcg 120
gttcattcat cttgtcgtct ttgtatacat attgctacca agatccattt aaaggaggaa 180
aggactccaa aattttacaaa tcgtccttgt agctgttcca ccaaaaaggg aacaatttac 240
cacttattta tccgagagag agggcggttt aagtcagaga gcatttacat gagatcaggc 300
cagttaactc tgggagcctt ggaatccgc 329

<210> 52001
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G11

<400> 52001

aattcccgtt cgaccacgcy tacgcgatgc ttttcacgac gaagagcttg ctttcaggga 60
cagccctacc ggaaggcacc aggttcaggg gccactgctt tctgatccg catagggttcg 120
cgctacgggc atacgcagac tccatccctt tcagatacag ccagcttgac gcgatcctaa 180
ggataaaacc gatccctcta ggggtccaaga aggcggagca agtctctgac aactacggg 240
catgcgaggc cgagttctcg gacgcttatg cctgcgccat c 281

<210> 52002
<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-G12

<400> 52002

attgaatgag attacatcac tgtttttttc ttagcgatat gttgagctca tgtgctcggt 60

tatgttagtc gatctctggc tcttgtagta acttggaag cttgctgnct tttttaag 120
gcatacatgc ctgtgatgtg tggatcatgat cttttttttc tcctgttatt ttagttgtcg 180
tatcataaat gccatgtttg cattggtgtt ccaacatgtc aatattattg aataaatgtt 240
tgcattggcg gcagcgggga cgacgctaag tcgagcaatg gcgaagcggc ccgtggtggc 300
agtaacggtg gagagaagca gggggatgaa tccaacggtg gcgggatact tagcgctgtg 360
gcttccagga ttggcgtggt cgtgtccagc gccaacgggg accgcagcgg cagcgc 416

<210> 52003

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G2

<400> 52003

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gccgccgcgc ccgcccttgc cagagagatc acccccatt cccacaatcc cgtccctccc 120
tccgtccctc gaggagccga gccctccgcg cggccgtggg atggggcagt gaccggtgag 180
tggcgtgggg agccggtggg cgggtggcgag ggcatatcat ggtgcagtgc ctggacgggg 240
tgaggcagct gctcgcggtc ctgctcaatt gctgcgacgt cgagctcaag cagccgcggg 300
ggctccaaga cccccaggtc ctgcgcaggg agaccgtctt cagcgtgagt gaggtcgagg 360
cgctgtacga gcttgtaag aggatcagca acgccgtcat tgatgatggg ctgattaaca 420
aggaggaatt tcagttg 437

<210> 52004

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G3

<400> 52004

gacgagtcgt ccgtcccagg ctcccagccc cggcgccccg tctcaaatca aaaaaattgg 60
gctcaaatct caaacccata aaaaataactg ttttttccaa ccaagccact cgcccgcact 120
tcatccgcgt tccacgcgca ctccgctgcc tcaactccgag actccgcccgc tgcttccaac 180

ttccgttgcg cacgagcgaa acatccggag ctagcaaggg aggaggagga ggaggcgatg 240
 gcggggggcg gggataaggt ggactacgtc ttcaaggtgg tgctcatcgg cgactccgct 300
 gtcggcaagt cgcagatcct tgcgcgcttc gcccgcaacg agtttagcct cgactcgaag 360
 gccaccattg gggtcgagtt ccagactcgg acgctcgtca tcgaacacaa gtccgtc 417

<210> 52005
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G4

<400> 52005

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 gcgaggtgga ggagaacatg gcggcggtggc tggttgccaa gaacaccctc aagatcatgc 180
 ccttcaagct cccgaccgtc ggcccttatg atgtccgctg gcgcatgaag gcagtgggga 240
 tttgcggcag cgatgtgcac tacctcacgg agatgcgcat cgcgcacttc gtggtgaatg 300
 agccgatggt gatcgggcac gagtgctcag gcgtggtcga agaagtgggc tccggcgtga 360
 tgcacctgtc cgtgggcgac cgcgtggagc tggagccggg cg 402

<210> 52006
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G5

<400> 52006

cccacgcgtc cgaaaaaaaa aaaataaatt taaaaaaaaa aaaaaaaaaa aaaaaagaaa 60
 agaaaaaaaa aaaaaaaaaa aaaaaaagg gggccgccct tttggatcca cccttctttc 120
 ctctccttc ctccgactta attcttcttt tatggtgcca cattactttt atttgctggc 180
 cgtttttcaa catcgtcact gctgaaaccc tctgttgcc cccctaatta accttggtgc 240
 acatcatcct tttttcacct ggtgtcgtat taacaaagcc cccccaatg atctttctta 300
 ccaacagttc cgcactcttg gtgactattg cgccccctct ttttgc 346

<210> 52007
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G7

 <400> 52007

 aaaaaacaaa aaaaaactaa aaaaataaat ttaaaaaaaaa aaataaaaaa aaaaggggag 60
 gattataaaa cggcggccgc tttctagatt ccaacattta cttccacttg catgccattt 120
 attagctttt ctctgcact cccttaattc actccactac tccaccgttt ataacatctt 180
 cccttgcaaa ccctctgtgt atcccaactt attcacttat caggatattc cttttttgcc 240
 agctggcgta aatacgatga gctccctacc aaacgtcctt ctcatcagtt act 293

<210> 52008
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G8

 <400> 52008

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 ctgttttggg tgctgcgata agactgtaaa gcaactgggt gaactgtcca gaaacttgat 120
 caccaggac caaattacca ttggagagcc attttggagc acaaccacca tcgaggttga 180
 accagcagat ctcaagtggg ttacttcagt caatacatct aacttggcct ctggaactgg 240
 tagcagtcac aaccttctg gacttggtta taatggactt gttctgtggg aacatacaag 300
 gcaggagtgg actgaaacta gaagtctgcg gctgaagggt aagcatgttc gtgaaccagt 360
 attgagttgg aatgcagcat atgagagtct gcttgatca aataagccat tttctcaacc 420
 cattcctctt catgagatg 439

<210> 52009
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-G9

<400> 52009

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aaggagcttc agactcataa acacatccca tacagggaga acaaaaatct gactggaaca 120
gcacgttatg ctagtgtgaa tactcatctt ggaatagaac aaagcaggag agatgatctg 180
gagtctgttg gctatcttct gctatatttt ttaagaggaa gcctcccatg gcagggcctt 240
aaagctggca ctaagaaaca aaagtatgat aaaattagtg aaaagaaaat gcttacctcg 300
gcagagattc tgtgcaaata ttaccgcgcg gagttcgtct catatttcca ctattgtcgc 360
tcctcgcat ttgaagacag gccagattac tcttcaatga agaagctctn tcgtgatgta 420
tntatacggg aaggataccc aattgattac gtattt 456

<210> 52010

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-H10

<400> 52010

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cctgggcctc gccgcgcgcg cgggcctcct cctgctcccc ggctcgttg cgtggcagag 120
cagcaactgt gcaccgggag cgcccgagcagg tggctcgccg acgtggcctt caccggctc 180
cggctccggc ggcgggcaca gcaagccgcc caagcaccac catggcaagc cgcccaagtg 240
cccgcctgctc aaccctccgt acgtgcctcc gacgcctcgg ccgtcaccgc cgtacgtgcc 300
accgtatgtc ccgcgcagc ctcggccgctc accgcctac gtgccaccat acgtccccgt 360
cccgcgcagc cctcgccctt caccgncgta cgtgccacca tacgtccccg tcccccgac 420
gcctcggccc tcaccgncct acgtgccacc atacg 455

<210> 52011

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-F5

<400> 52011

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gtccgtaaaa cagatcttat cagaaagggg ccctcatttc atctgtggaa atgaagttca 120
tgtcaaagca tacagggaag agcatgaatt ggagtacatg atgttaactg agaaagatat 180
ccattgtaac tgcgggtgtac gcgatgtgtc agatgtgggc gatttgcaat tttgccacca 240
ttggcagtgg acttcgctaa tttgctatcg gacacacaaa tcatagacac ataccggacc 300
cacaaatcat agacacttgg ggggtggcgac attgcaaata tttcgtcaga tgtagatgca 360
gttgggtgagc atcatacagt gactattggg gactntgggc ttcagacgac cttggaattt 420
gactactgag actctgag 438

<210> 52012

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D9

<400> 52012

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gccttacgtc gtcctgtggg ctcagccgca gtcccagacc gcaggaagtc agcaaccgac 120
acgcactcag gcacaggtat cttacagctc gtatgcttac ccaccgccgc catgggctgc 180
acaggacagc accgaatcga acccttttgt agcggcagca tcgtcatctc agcaatacca 240
gtccacttcg agaaccctta ccatgccacc gaacttgagg cctctactac agcagtcgca 300
ttcttttggg gtaccacttc caaccgag tctggactcg ccaataaatg ggaacctgaa 360
gcaaccgctg tctgctgggg ctcgcatgcc atcttatgtt tcttccaaca agttcttcga 420
cgacttggtt gagaggaact cggat 445

<210> 52013

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E1

<400> 52013

aaaaaacaaa caaacacaaa aaaaaaaaaat ttaatacaac aaaaaaaaaac aaaaaaaaaa 60

gaaagaataa aaaaaaaaaa aaatacaaac aaactaaaac acaatccaaa atacataact 120

catcaaaacc tacaccctcc tcttcatatt tcccttctac atccccacaa ttaatccatt 180

taccttctct atatcaatcc ttttaattcc aaaaaccctt cctatcccca acttcttcta 240

ctttgacaaa atcccccttt ctccaatttt cttattaccc aatatctccc cccttatccc 300

cctttccaaa attttttcat cctcattgct tttttctatc ccccccttt 349

<210> 52014
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E10

<400> 52014

cccacgcgtc cggtgcaca acaacgaggg gaactaccta gcccacacgc aaggggaagag 60

gcacgagacc aacctcgcca agcgcgccgc ccgagaggcc aaggatgcgc ccgcgcagcc 120

ccagcccaac aagcgcaagc ttgccccccg caagtctgtt aagattggca gacccgggta 180

taaagtaacc aaacaatatg atcctgagac gaagcaacac tcgtttctct ttgagattgg 240

ttacctgaa attgaagata attgcaagcc aaggcaccgc ttcattgcat catatgaaca 300

gaaagtccaa agttgggata agaggatatca atacctactt tttgctgcag acccctatga 360

aatcattgca ttcaagatac caagtacaga gattgacaaa tcagcgagca aattcttctc 420

ttactgggat cctgacaaga aggaatacct gc 452

<210> 52015
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E11

<400> 52015

cggacgcgtg ggccgacgcg tgggggtgcgc agccgcagcc gcagccgctg cttttcgtgc 60

gtctgcatcc tacgcgaggg cgaaaccac aaaccctctc cctcccgtag tccggcctac 120

acatccaggg gcgatgacgc tgggtagctc cggcgccgga tcgagcgctc tcgttccccg 180
 aaacttcagg ctattagagg agctcgagcg tggagagaag ggcattgggtg atggaacagt 240
 gagctatgga atggatgatg ccgatgacat ctacatgcgg acatggactg gtaccatcat 300
 gggccctcac aatactgtac atgagggtcg ca 332

<210> 52016
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E2

<400> 52016

cccacgcgtc cgcccacggg tccgctctac cttcaaaggg cgaaggcagc cgatctcaag 60
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 gcggagatcg gtccactcca tccacgcggc gtcaggcgag cggggcgcac ggacgctgcg 180
 accgatggat ctcaaggata gcctctccaa atttaagcaa cagcaggaga gatgccagtc 240
 atcactggcg agcatagctg cttcgacctc aaagccaaag cacagggccc aaccagcgca 300
 tgctcctaac gtcccagcaa gaccatcaca acctattaag ttttcaaatt 349

<210> 52017
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E3

<400> 52017

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 tcgagtcgga ggtcgccgcc tcgtccgccc aggaccgcgc caaggacatc ctcgtcgctc 120
 tctccggcct cctcttcggc ttcgggtgcg gcgcctcac cgcggcgctc atgtacctcg 180
 tgtggtcgct cctcgctcc acctgcgct ctggatacga cgacgacgct tacagcgacg 240
 acgaggaccg gctgtccgac tccgagagcc ccaagaatgc cggctacgct atcatccacg 300
 acgctgacga gtacggcgcc ggtaagaact agggctgggg atccgtcttc ggtctcgccg 360
 ggggtcagca gaaggatttt cgtaat 386

<210> 52018
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-E4

 <400> 52018

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 atgactgcgg actcaacctg tttttcattg tcttcacgtt gattcttggt tttgcgtttg 120
 ctattgttgc cctgcaccca aagatcaatg gaagcttggt gcctgcatca gttattggta 180
 tgtactgtac atatctgtgc tacagtggac tctccagtga gccaagggat tacgaatgca 240
 atgggcttca caatcactca aaagctgggt caactggtag ccttacattg ggactcctta 300

<210> 52019
 <211> 492
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-E5

 <400> 52019

 cggaatggaa tgccccgacc gagcgacgcg tcacgcgtac gggcgctcgc gcccgcacca 60
 gatccgacag acccgtggcg ctccccctggg gcgagtcgga ggtcgcgcgc tcgtccggcc 120
 aggaccgcgc caaggacatc ctgcgtcgtc tctccggcct cctcttcggc ttcggctgcg 180
 gcgccctcac cgcggcgtcc atgtacctcg tgtggtcgct cctcgctcc acctgcgcct 240
 ctggatacga cgacgacgtc tacagcgacg acgaggaccg gctgtacgac tccgagagcc 300
 ccaagaatgc cggctacgtg atcatccacg acgctgacga gtacggcgcc ggtaagaact 360
 agggctgggg atccgtcttc cgtctcgccg ggggtcagca taaggatttt cgtaataaca 420
 tttgcatgat tgcttgga aa tgtgcagtat actgtatgca cctttttaat catgtgcgtc 480
 tcgtctgtcg gt 492

<210> 52020
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E6

<400> 52020

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tcttcatccg tcaaccatgg cgacccagat cagcaagaag aagaagttcg tcagcgacgg 120
tgttttctac gccgagctca atgagatgct gacgcgggag ctggcggagg acggctactc 180
tggcgtggag gtgcgcgtca cgccgatgcg cacggagatc atcatccgcg ccacgcgcac 240
gcagaacgtg ctcggcgaga agggccgtag gatcagggag ctcacctcctg tcgtccagaa 300
gagggttcaac ttccctgaga atggcggttg gctttatgcc gagaaggctg tcaaccgtgg 360
gctctgtgcc atcgcgagcgg ccgagtcctt ccgttacaag ctctcgggtg gccttgccgt 420
ccgcagggct tgctacgggtg ttcttcgtta tgttatggag ag 462

<210> 52021

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-E7

<400> 52021

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gggcatttat gtcttcaaga aagatgcact tttagacctt ctcaagtcaa aatatattca 120
attacatgac tttggatctg aaatcctccc aagagctgta ctagatcata gtgtgcaggc 180
atgcattttt acgggctatt gggaggatgt tggaacaatc aaatcattct ttgatgcaaa 240
cttggccctc actgagcagc cttccaagtt tgatttttat gatccaaaaa cacctttctt 300
cactgcaccc cgatgcttgc ctncgacgca attggacaag tgcaagatga aagatgcatt 360
tatctcagat ggttgcttac tgagagaatg caacatcgag cattctgtga ttggagtctg 420
ctcacgtgtc agctctggat gtgaactc 448

<210> 52022

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E9

<400> 52022

caacccccaaa ccaatccgtc gcagacactc aaggtcgcag gatgccgccg ccgcgtgagc 60

accaggagacc ccaggacgaa gaggacgacg ataccgcagg cgttgtcaag ctcatcagcg 120

ccgaggggctt cgaattcggtt gttgacagga aggccgccat ggtctccaac accctccgca 180

acatgctcac atccccaggc ggcttctctg agacgcgcca gggcgaggtc cgcttcccag 240

agatccccac caacatcctc gagaagatct gccagtatct ctattggctg ctccattact 300

ccagtgggaa ggagaccacc gaagtttcaa atcgaaccgg agataaccct ggagcttatg 360

at 362

<210> 52023

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F1

<400> 52023

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cgagtatgat gagcagatct caggctatcc aagggacaat tctgagttca gccccatata 120

gatgatgggt gatgtgagcc acgatgagga tgctgaaagg gatgagggcg aggaggatgg 180

agaggactat gaaactgacg atcctgctgg tgatgaggat gatgacgttg agatggattg 240

ggatgatgac attcggggaca acgatgatgg taatggagca gccaacgcag atgaggatga 300

atgtggtaca tcatcatatt cttcacagta tcgtgagtga tgagagtgga ttgaagatgc 360

gcaggtttg 369

<210> 52024

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F10

<400> 52024

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gtacaagata tacgtctgat gaatggggaa gccatccatg caacaccaag gaagacaggg 120

attatagttc ttggtggagg ccttccaaag catcatatat gcaatgccaa tatgttccgc 180
aatggtgcag attatgctgt gtatattaac acggctcaag agtttgatgg tagcgattct 240
ggagcacacc ccgatgaagc agtctcatgg ggcaagatta agggttcagc aaaacctgta 300
aaggtgcatt gcgatgcaag tatcgctttc ccgcttcttg ttgcagcaac atttgcacgt 360
aaggttcata actccaaatg aacagactga atgggattcg gtggagtga tgggcaacag 420
aattttgttg aactcttcaa atgacctttt gga 453

<210> 52025
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-F4

<400> 52025

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aaagctgaga gccgcactgg aagacatggg ataccgagac ggagacacca tggtcggagc 120
cccctacgac ttccgctacg cgccgccgtc ccccgccag acgtccgagg tgtactcccg 180
ctacttcaag gagctgatgg agctgggtcga ggccgagc gagaggacc ggaagaaggc 240
cgtcacctc ggccacagct tcggcgccat ggtcgctc gagttcgtcc ggaacactcc 300
gncggcgtgg cggcgagc acatcgagc cctcgctctg gtcgcccga cgcttcccgg 360
cgggttcctg gagccggtgc gcaacttcgc gtncgggagc gacatcctct acgtgccagc 420
gacgacgccg gttgccacgc gagccatgt 449

<210> 52026
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D7

<400> 52026

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa a

161

<210> 52027

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C2

<400> 52027

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tgttttttag ccttcttatt gagtgtgctt tgagtatgtc gaagatgaac acttgtagtt 180
ctgaatctta acacatccaa catgtaagag tgtgtttact tcgaaatcta aaacgaaaaa 240
atcttctaag aatacctact aaagcatttg ggatgctctt gcacacctaa acttacttac 300
ccaaaccact taagtaaag gatttggtc 329

<210> 52028

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C3

<400> 52028

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cctgcctcct cctccaccg gcacccccaa agccgccacc gccgccagct actgcctctc 120
ccgtaccgcc gccgccatcg tacgagcagg ccgtaggggt ggggtggtggc cgaagggagg 180
aggatgacga cgagggcgcc ggggcggtga tacgggcaca cctgctctct gacttcaagg 240
ccgcggtgcg tgcaggaaaa gtactggtgt ccgaccgctc gtctggaaaag ttgaagggca 300
agctttgaaa atgtcatcca ctgtgccgaa gtcacaaat atcttctggc atgattgcct 360
agttggcaag actgatcgcc agaagctact caaccagaaa ggctgtgttg tctggatcac 420
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<210> 52029

<211> 275

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-005-Q1-K1-C4
 <400> 52029
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 ggggttttgcg agtttcgctc tgcagaaggt cggtaggcac attggagact gggagcactt 120
 caccctccga gtgagcaact tctcagggtca gctgtcgtct atctacttct cgcagcacag 180
 cgggggacgag tgggttgaag cttgcgatct ggagttcatc tctgggaaca aagcgatcat 240
 ctactcgtcc aggaacgggc acgcgaacta ccccc 275

<210> 52030
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-005-Q1-K1-C6
 <400> 52030
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 ttgacaagaa ccctgacaac caccataacc tcatgaaatt cttccaaagc tcagccccca 120
 aggctatgct gtttttgaac ttctccaccg gaccttttga ttctttcaag tctgcctact 180
 ctgctgccgc ggaggaattc aaggacaagg aaatcaagtt ccttattggt gacatcgaag 240
 ccagccaggg tgccttccag tactttggcc tgaaagagga ccagacaccc cttatcctca 300
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<210> 52031
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-005-Q1-K1-C7
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tcgacttgtt gatctgcggc aatcagccct ttgcgacaat cattcccaaa tctttgagca 240
gcattgagggc ccaggttcaa gatcattttt cactgagatt atagcttcaa tttcggacat 300
aaaattttcg aaggatggga ggcatattct cagtcgtgac tacatgactc tgaagctttg 360
ggatgttaag atgaattctg gtccgtgtgc aacattccag gttcatgagt atctaaggcc 420
taagttatgt gatttatatg aaaatgactc 450

<210> 52034
<211> 452
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-005-Q1-K1-D12
<400> 52034

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gcggcgcggg ccggccgccc ggcgaggtgc gcgtagctgc cgtcgattgt cgccggatcc 120
atccaccatg ggcggtggca acggccagaa gtccaagatg gcccgcgagc gcaacttga 180
gaagaacaag ggggccaagg ggagccagct cgagaccaac aagaaggcca tgagcatcca 240
gtgcaaagtg tgcattgaaa cattcatgtg taccacgact gaagtgaagt gccgggagca 300
cgccgagggc aagcatccca agacagacgt gtaccagtgc ttcccccatc tgaagaagtg 360
aaaggcctga acttagcaac cagtgtgtgt ttggctacta cgatcggggc agggggcggt 420
ccttgtgttg aggggtgttc ttccgtgtta tc 452

<210> 52035
<211> 402
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-D2
<400> 52035

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gctggaggga aggcgaagaa gggagcggcc ggtcgcaagg ccggcggggc gaggaagaag 120
tcggtgacga ggtccgtgaa ggccgggctc cagttccccg tcggccgcat cgggcgctac 180
ctcaagaagg gccgctacgc gcagcgcgtc ggcagcgggt cccccgtcta cctcgcggcc 240

tgattcagat aaaaagaaag cattcatcat ctcggaatgg aagcaca

407

<210> 52038

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D5

<400> 52038

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ttttattttt attaaaaaaa aacctagcca aaattaccac taaaaatcaa aaatcccact 180
ttttaaaaaa aaattatttt ttaactaaaa acttaccaaa aagaccaact taatttttaa 240
aacttaattc caatttcctt actcaaacta aaaaccaat accttcttta actaaaactc 300
ttatacaaag atttaacact ataactactt caaataattt accctag 347

<210> 52039

<211> 328

<212> DNA

<213> Zea mays

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<400> 52039

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ggagatcgtc gacttccacg gcgagatggt cttgctggag aactacagcg cgctcaacta 120
caccggtgag acgcatctca ctagggatga gagagttttt atttttattt caaaaagata 180
gagaggggaa aaacaatcgt gcagcgttag atttcaagat tcattctaaa cgtactgaca 240
tagagcaatg gatgctctgg gttaaccagg gctgggtcaag attctcaagg agtacgacaa 300
gaggaccggc gcgctgatcc gtctgctc 328

<210> 52040

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C12

<400> 52040
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 gctcctataa tacgcgctat ggacaaactc atctgagcgt cctccgctcc cgggactggc 180
 tccgccctca ggccggtggc agtcgccggc ggctcccgcg gctacaacac cggcgctccg 240
 ctccgacgct acgagggggc cgagtcggaa gacgatagcg tccgcgagta cgatggggcg 300
 cacaagcggc cgggactacg ctgtgccag cctgtttctca gatattttcc gtgatccgct 360
 tagtgcgccg cacagcattg gcc 383

<210> 52041
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-A8

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 caaggccaag gagcagggca agctggtggt catcgacttc atggccccct ggtgcagtgg 180
 gtgccagatg atggcccccg tgtacgcgga ctgcgccagc aagtaccctt ccgcggtctt 240
 cctcgaggtc gacgtggacg aactgctgga agtcgcgaag atctacggcg tccatgtgat 300
 gccgaccttc tgcttcatca ggaacggcga gacgctcgag agctttgcta ccgtcgacga 360
 ggacgagctc cgggacgccg tcaggaagta cgccgncgct ggcactacga cggctcctgc 420
 cctggcgctc gnctaattca ggagatgtga tgtgt 455

<210> 52042
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-005-Q1-K1-A9
 <400> 52042

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 tcgtgaatgt taataaaaga aatcgatcac atgcagtact tgtatctaga gttcttccta 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaagacaa 229

<210> 52043
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B1

<400> 52043

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 catgtacgcc aagcgcgcct tcgtgcactg gtacgtcggg gagggatatgg aggagggcga 180
 gttctccgag gctcgtgagg atctggcggc gcttgagaag gactacgagg aggtcgggtgc 240
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 cggcgtcgtc gggcttgtgt gccactgcta tcctgtgatc tgccctgagt ggctcctatc 360
 gtgttatgtt tctgtcgggt cttatctatc tgctgttggt tggtttacaa cttacgttgt 420
 aagactttat tccccgctt tgctact 447

<210> 52044
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B11

<400> 52044

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 taagcaagct ctcaacgaca tcgcttcgct tgatattgct cttgtgagta acatattcag 180
 ctt 183

<210> 52045

<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-B2

<400> 52045

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ctgccccaca agtccctgca gcaaaacaaa gtgcaccagt cacttcaaca gtcagaatg 120
caccttttct ttctcgttca atgagtgtg ttgggcggtt ggggaatgaa ccatctgcca 180
atgtccttag ttctgttccc cgttcacgaa catatcgcaa tgccatgatg gagaaaagtt 240
ctggtggtgg aagctgtttc acacatcagc aaggttcatc ggagcaagca gttgcaccat 300
ggcaatcgat gtttacatcg caacctttca ttcggccatc agagaccttg tcttggaag 360
aggaaacatt attgagatct ggggtttacat ttggaactgt gaagcccag tcaactgaacc 420
catatcangg cagagaagag aactcacagc aagcgagca 459

<210> 52046
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B3

<400> 52046

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cctgttcaaa ttgcactgac tttcagtcaa ggagacttgg aattgggtat ggccagaaaa 120
agaatgacga gcagtccaag cagtttggtc atatgctgaa ctctaccttg actgccactg 180
agaggaccct ctgttgcatc ctggagaatt tccagaagga ggacggcgtc gaggtgccaa 240
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ccaacaagc tgctgactcc aaatcaaaca agtccaaatc aaagggaaat gctgcttgag 360
ttggacgaag aacagactgg aatgcaaagc cacgtgcagg ttgcaaattc ttatttatgt 420
taaattttgg ggcctatcag tacacagtac tcatagcatg ac 462

<210> 52047
<211> 385

665459 5445650

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B4

<400> 52047

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gagctcattt ctgcccttgc aactgacatg agcacttcaa tctcccaatg tagcaactac 180
tctggtgcat cagcaccctt acgctgcaat ggaaatgttg actgcatcaa tccagcgcac 240
tgtatattct ccaatgagca atcacctgat ttccagaaat gctatcaggg tgaacaagat 300
gttgattctt ctgctacatc gctaaacaat gagcccaatc agccaagtcc aacatcagtc 360
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<210> 52048
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-B6

<400> 52048

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ccgcccgcaca ttgacaggat ttgtcgacac ggacatctcg aacggcaaga tatccctgag 120
aagcctgacg gaccggctcg tggttgagag ctccggagcc gggggcaaga cctgcattct 180
ctccaggggc taccgcgcgc tggccatcgg caaggacgct cgcctctacg tgttcaacaa 240
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gaacggggcc tgaagatctt gaataaatat atcacccatg catgacatat tggcgctga 360
ggaatctttc cttnttttaa aaaacatatt ttagatgtcg ttatttaaga gttgaattgt 420
catactaaag ggcgccccgt tatatgttac aatggt 456

<210> 52049
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B7

<400> 52049

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gagctaatta gtactggaag aattctttat agcgtccaga agcattcatc tgtagattcg 180
tatggtcctt tttattttcc tgggtacaatt tatcttctgg tggctgcagt tgatggatta 240
tcgtgtatcc ttagcttgca aaactgggta gtttccttaa tccttcacat catatctctg 300
gctcccgatg ctgtttctgc atcctaaatg gcagtagctt tgggaaccaa ctgcatgtct 360
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<210> 52050

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-B8

<400> 52050

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acaccctgc gcgcgcgaga gtaagtcgcc tccccgccg ccagtgtctt tcgtgatgat 240
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tattgaagag ggatttagat gcatgaattt tgtgttcgta acgtggattg gtgtgggggtg 360
ggagaggctc ctttgccgga ttggccaggt taccattgta cctgtgtagc tnggcagttg 420
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<210> 52051

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C1

<400> 52051

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 tactcttact ccctgtagct ccacgtagaa gaaaccgatg tcttgctgtt ggcaattttt 180
 cttagtccaa aaaaaaaaaa aaaagaacaa aaaaaaaaaa aaaaaaatat aaaaaataga 240
 taataaaagt atactaagat agcaaaactg tttaacatac cttaatacaa catatcaatt 300
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 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-C10

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 acccgctcta cgaggccttc gggctcctcg acgccgncgc gcccgccgac gtcgacgcct 360
 tctgcgcgcg cctcgacgcg ccgnccaaag tcaggagac cgtcaagacc tacgcgagg 420
 agatgcacga cgtgat 436

<210> 52053
 <211> 557
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-C11

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aggaccgtca tcgcgttctt cggtagggccg cctgcggcc cgagggcgct ccgcgccct 180
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gtgaatctca tcccccc 557

<210> 52054
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-005-Q1-K1-A7
<400> 52054

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gcaatttgat tggtgctaag ggcaagaggt tcgccaagaa acgctatgct gagaaggcac 360
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atgt 424

<210> 52055
<211> 394
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-004-Q1-K1-H10
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<210> 52060
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H9

<400> 52060

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 gggcgccccca ggaggggcgc cgatcagctc acctagaatc cggctgaaag acggccggca 180
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<210> 52061
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-A1

<400> 52061

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 cctggccggc aacggcttca ccgggcctat accggcgtcc ctccggagact tacaggtgct 180
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 tctgatcacc gagcttcccg ccgtgttctt ccagggaac ccggggctgt gggggccggn 360
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<210> 52062
 <211> 364
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A10

<400> 52062

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aaaataagac tagcctataa tagcttacct atcatagcta acttatttat tacaccttcg 180
aagaataata aaacttcac c aaatcgaatg acttcacctaa ctataacaac atatcccatt 240
acaaaaccta tatttctctc tctattatac catcttctct taaaagcatt cttcctatgc 300
caccagaat cataccacct ccataccta agatcattcc tacagcttca ccaaacttac 360
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<210> 52063

<211> 420

<212> DNA

<213> Zea mays

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<400> 52063

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cagatcctga catgcttgag gtgggcaacg gcggcatgtc cgaggcggag taccgctctc 180
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tgagccagca gacgatgggc atactcagca actcggaagt catcgccgtg aaccaagata 300
gccaaaggctc gcagggaaag aaagtgcagt ccagcaatgg cttggagggt tgggctgggc 360
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<210> 52064

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A12

<400> 52064

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tgagaaaaga gagggaggaa aagagagcgc agcgtgatcg gcttcgtcaa cgtgcagagg 180
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gtgcatctcc cagaggcttt cctggaggga tgcctggtgg tggtttcctt agagggatgc 300
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<210> 52065

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A2

<400> 52065

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tgaacggcgc cgccacaag gggatgccgc acaagttcta ccacggccgc accggtcgcg 240
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tcatcaggaa gcgtatccat gtccgcgtgg agcatgtgca gccatccgcg tgacagaag 360
agttccgcct gaggaagggt aagaatgacc agctgaaggc ggatgcaaag gagcgcggcg 420
aggtcatcag caccaag 437

<210> 52066

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A5

<400> 52066

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tatgcacagg acagataaag tggacgaaca tccttctggg atgaggcaca ccgatgacat 240
 gccagtcag agttctagaa ttccaatgtc agttgatgtt ggggctgtgt ttggcacacg 300
 acctgcacct aggccaacat tgaacagtgc ggacaagtct cgtttaaaac ggaaacttga 360
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<210> 52069
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E7

<400> 52069

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 gagccacagc actagccaac attgatacaa gcattcctgg cagccctgat gcaatgccat 240
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 caagtctacg cagtgggtga tccgagtgcg gttggcattt gtgttgagag tgctatgatg 360
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<210> 52070
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F1

<400> 52070

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 ttgttatcat tacacatcta ttacatcct ttaaataaat acatccatta aactttgata 180
 aatgtatttg aaaacctgca gaagagaggt cattgatgag gatggttggt tacatactgg 240
 agacataggt ttgtggctgc ctggaaggcg tctaaaaatt atagatagga aaaagaacat 300

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gtgcaagttc attgctcaat gctttatata 390

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<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F10

<400> 52071

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tcggagccgc tggctgtgcc tgggtg 385

<210> 52072
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F12

<400> 52072

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tctcgccgg agaccgcgaa gtccgccgct tccattccca cctcctcggc cgctctctgcg 180
tctgtcctcc tccgcgccgc cgtcgccgcg ggaccggcc gccggcttcc ggcgccgccg 240
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gaggtggaag gagttcttgc agatgtctac cgttttggca atcgccaagc tttcaatgta 360
gcatttcgaa gcctcggact agatt 385

<210> 52073

<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-F3

<400> 52073

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agcttctcct cagctccaac cccgtgctca agaagggtgcc cgtgctcatc caccacggca 180
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cacctaattt ccttccatcc gaccctacg accgcgccat tgctcgcttc tgggcctnct 300
acgtcgacga caagttctac agcgcgtgga taccctgtgtt caggggc 347

<210> 52074
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F5

<400> 52074

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agctacagtt gaacagaatc atttgaagac agaaataatg tcaatatttg atgatttaac 180
ccaagatgat caagattcag tgcgtctgtt ggctgttgaa ggctgtgctg cccttggtaa 240
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ggataaatca tggcgtgttc gttatatggt tgccaatcaa ttatatgagc tctgtgaagc 360
tgttggccct gaggctacaa gagctgattt ggtgcctgcc tatgttc 407

<210> 52075
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F7

<400> 52075

0934745-093500

<210> 52080
 <211> 381
 <212> DNA
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<223> Clone ID: LIB3079-004-Q1-K1-G3

<400> 52080

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 acgtcctagt ccagactatg gtcgcccagc aagtcctgta tatggttcat atgacgggtcc 240
 tggtcctggt cgtgatcgct atcggagatc ttctgcttat cgatcaaagt ccccaactgc 300
 gaaacgaaga gcatatgact aatcgagaac cttttgttat gccatatatg gcctaagaac 360
 accctgtagc aagaacttac t 381

<210> 52081
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G5

<400> 52081

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 tggaggtgcg tatcaagatc ctctacaccg cgctctgcca cacggacgtc tacttctggg 180
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 tggagagcgt cggagagggc gtgaccgagc tcgcccagg cgaccacgtc ctcccgggtg 300
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<210> 52082
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 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G7

<400> 52082

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accctctta atttgctagg gctgcaacaa tatcttagcc tttgggatgc ttttaaggcga 180
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aggttatgga agacttgggc ttcacccaca tgc 333

<210> 52083

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E5

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atcaaattgt tattccagag aaaaacagtt ggaagaactt attctcatac atagggcctg 180
gatttctcgt ctcaattgca tatattgatc ctggaaactt tgagacggat ctacaggctg 240
gagcacagta caaatatgag gtgctgtctg cttcagtctt atgttccac ttcttctttg 300
gatcatacct tgtgcatcct gtgctgtctt tattattcaa tcacttgag ccaggctagg 360
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<210> 52084

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C5

<400> 52084

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<210> 52087
<211> 391
<212> DNA
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<223> Clone ID: LIB3079-004-Q1-K1-D1

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gattacaaca tccagaagga gagcactctc cacctggtgc tccgcctcag gggtagcatg 240
cagatttttg tgaagacatt gactggcaag accatcacct tggaggtgga gagctctgac 300
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cgtctgatct ttgcgggcaa gcagctggaa g 391

<210> 52088
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D10

<400> 52088

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aagtccacca aaaacccaaa aattggtccc caggtgcctt tggaccaagg aacctttaat 180
aatccagaaa attttccatt ccccaaa 207

<210> 52089
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D11

<400> 52089

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cctgtgaata cgaatctggg tagtgagcac aagacagggt ctggtcagca ctcggacaca 300
aaagatcttg gtggaatgg cactagcagt accggtgctt catcagacag agggtc 356

<210> 52090
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D12

<400> 52090

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tcatcaatga caagttcggg atcggtgatg gtctgatgac cactgtccat gccatcactg 180
ctaccataa gactgtttat gggccctcat ctaaggactg gaagggttga aaggctgcta 240
gtttcaacat cattcccaac aa 262

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<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D3

<400> 52091

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atgaaattcc agataaaaga aatgccacct acaaggaaag attcagtagc ttaaaaaaat 420
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<210> 52092
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 <223> Clone ID: LIB3079-004-Q1-K1-D4

 <400> 52092

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 <211> 401
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-D7

 <400> 52093

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<210> 52094
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-D8

 <400> 52094

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gatctaaact gtggtctgat actttgagcc gaggtctagt caatctggac atttctggac 180
caaaagcgaa tcctcatgct gatattggag ttgactttga ttcaatcaat cgcaaggaga 240
aaaggcagga aaagaaaatc aaccaagcac ctgtggtgtc tacagtcacc atgggcaagg 300
gccatggagc tggttccggc attggtcggg ctggtgt 337

<210> 52095

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C12

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agtgtgtaga tttctgctga ttgatcggct tctataagct ggcgttgacg gtatcacaag 360
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<210> 52096

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E1

<400> 52096

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<210> 52097

<211> 418

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-E10
 <400> 52097

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 cgggcatccg gatccgggac ctggcggggt gggcggcct catgggcgcc ggccacgact 360
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<210> 52098
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E12

<400> 52098

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<210> 52099
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A5

<400> 52099

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<210> 52100
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A6

<400> 52100

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 ccaagaaggg gagagccaga tgtaactcgt aggacacctg actatttcct gtgacgcaaa 180
 agtgatgtgg atcatgcaga gcgaagggtt gatagatagg cgagtttcc tggttgcaga 240
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 ccctggctcg ccggccgctc tgccgcgtcg tgattcaagt gtataacctac agcctgctac 360
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 gtgt 424

<210> 52101
 <211> 98
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A7

<400> 52101

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 aaaaaaaaa aaaaaaaag aaaaaaaaaa aaaaaaa 98

<210> 52102
 <211> 396
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A8

<400> 52102

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tcctgcaatg tactttgggtc ttatgggtga tggccagcct attggtcgct acgatgatat 180
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<210> 52103

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A9

<400> 52103

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cattcattta gagtttgata ttgctggaac tggcctaaaa tatgaaactg gagatcatgt 180
tggtgtctat gctgaaaatt gcatcgaaac tgttgaagag gcagaaaaac tgctaggtta 240
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gggttctttg ccacctcctt tcccgtcccc ttgcacagtg aggactgcgc ttacgagata 360
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ctgattct 428

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<210> 52104

<211> 229

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-004-Q1-K1-B1

<400> 52104

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cccccaaggg ccccgatccc gatgtggttg ctattgttga gaagttggct actgtgaaac 180
acaaattatt agttntgtct ggaaaggag gtgttggaag gagcacatt 229

<210> 52105

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B10

<400> 52105

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caaccgtgag aaggtgcaaa aagacgaggc cgccgccgcc cgggaggagc agctccagcg 180
cgaggcgga cgccgcccg agtcggatct acgcctcgct gcactacgcc gtaaccgcgg 240
cctggtccag gcggagacgc ccccgctcc tccatctcac cccgccggcc ccgctgatcc 300
ggcgagcgc cttccttccc cggggagcgc cttccttcc ccggcaacgg atggagacca 360
catcaacctc ttctcaggtg gatcaagcg 389

<210> 52106

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B11

<400> 52106

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ctcacttgct cctagtgcga ttattccaca gttcctccca ccagttactt caatgggctt 180
cgaacaccta gctgtgcaag ccaacatgca acaacaagcg cttgcggcga gcgtcttaca 240
acaaccaatt gcccattgc aacaacaatc cttgccacat ctaacaatac aagccatcac 300

aacgcaacag caacaacagt tcctaccagc actgagccac ctagccatgg tgaaccctgc 360
 cgtctacttg caagagcagc tgcttgcatc caaccactt gctctggcga acgtagtgtc 420
 aaaccaacaa caac 434

<210> 52107
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B3

<400> 52107

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 agtcttgacc gggctatcca ggacgcggag gcattgtgta ctattgcagg agaaaatggg 120
 gcttcctgca ttccacctgg aacccacact tcaatgcccg tcgagaccga tgggtggcatg 180
 tacgtgcaag aagacgaggt cttgtgagat atcggtcacc ctagaaaata atcgcataga 240
 agcatcgcaa gtttttatcc agtaatgctt tcgtcgtcgt cataaatgtg atccgttgta 300
 agtttggaag aatcatgaaa acctagagtt ggggtgtatat actaccttga taaacctcga 360
 aattgatact ttcactattc tg 382

<210> 52108
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B4

<400> 52108

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 acttctgac aatcatgggt tccgcactat caaatcattc agcgagatct gaggaatctg 180
 gtgatctgga catgtctaga tatatgtaat tcgcgagtgc tttagcccac gtgccacttc 240
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 tcattgcgaa ataaaaactt tggttcagtg ggctaaaaaa aaaagaaaaa 350

<210> 52109
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B5

<400> 52109

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gctgagctta tgctagggca gcctttgttt ccaggtgaaa gtggtgtgga ccaactcgtc 180
gaaatcatca aagtccttgg tactccaaca aggaagaaa ttaaatgcat gaaccggaat 240
tacacagagt ttaagttccc acaaatcaaa gc 272

<210> 52110
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-004-Q1-K1-B6

<400> 52110

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cgatgtgctc ggcgtcagca agagcgccag ccaggcggag ataaaaaagg cctattatgg 180
gcttgcaaag aagctccacc cagacacaaa taaaggtgat gcggatgcag aacgcaagtt 240
tcaagaggtt caacgagctt atgagacttt aaaggatgaa caaaaaagat cattatatga 300
tcaggttggc cctgatcagt atgagaaaac tgcttctggc ggaggcggaa ctggcttcga 360
gggtggtttt ggaaatccat ttgaggatat ttttggtggt ggccgtggcn gtggtgg 417

<210> 52111
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B8

<400> 52111

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catgaggaat ttgaggagca tgctgagaag gcaaagacct tgcctgagag cacgagcaat 120
gagaacaagc tgatcctcta cgggctctac aagcaagcca cggttggaga tgtgaatacc 180
gatcgtccgg gcatattcta ccaaaaggac agggccaagt gggatgcctg gaaggctgtt 240
gaaagcaaat cgaaggatga agcgatgaat gactacatca ccaaagtga gcaacttcaa 300
gaagaagctg ccggctctta aaagtctctt aatagtgttg ccaaacagct atttggcaga 360
tgagctttgt gccatttt 378

<210> 52112
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-B9

<400> 52112

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ttgcggaggt gcggtggaga tttgaggcct gcggcgaaga tggcacctgc ggaatccggg 180
gagaaggcga ccagcttcgc catggcctgc agcctgctca gccgctacgt caggcagaac 240
ggtgccgccg ctgccgatct cggactcgct atcagagctg aatccgatgc anagaggacg 300
tcgacggaca tggaaaaggg ggagacggng aaggagacca tggatctctt ccccagatc 360
gctggattcg gctcggaggc cgnacgaag gaagcccctg atg 403

<210> 52113
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-C1

<400> 52113

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gacggatatc cggtgcttgc tttgatgcgg ctttggaat cattccaggg ctaaaggttc 120

gtggaactga ttactccact gcagatggaa cttgtattag ggactacatc gatgtcacag 180
acctttaga tgcccatgtc aaagctcttg gtaaagctca gccaggcaaa gttggaatct 240
acaacgtcgg aacaggccaa ggtagatcgg tgaccgagtt tgtagaagct tgcaagaagg 300
caacgggagc ttncatcaag gtcgaatatc ttgcccgtag acctggagat tacgccgagg 360
tatacagcga cccgtcgaaa at 382

<210> 52114
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-C11

<400> 52114

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caccgccga cccgccgct cccgtgccg ctccctccgc ctccgccccg ccggccgccg 120
gtcggccccg tcctcgctc gggccaccaa ggctgtggtg gcagcgttgg ctgacctct 180
caaggatcatg atatcaggag ctccggcgtc cggcaagggc acacagtgcg agctcatcaa 240
gaccaaatat caactggcgc acatctccgc tggagatttg ttgcgggcgg aaatcgctgc 300
tggctctgag aatgggaagc gggccaagga attcatggag aagggccagc tcgtgcctga 360
tgagattgtc gntaatatgg t 381

<210> 52115
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-A4

<400> 52115

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tactccagct agctcgcggc ggcggccagc ggccatggcc ttccggctga gcaacaacct 120
gatcgggggc ctaaacttcg tcaccttct gctctccgtc ccgatcctgg gcgcgggcat 180
ctggctgggc caccgcgccg acggcaccga gtgcgagcgc tacctctcgg cgcccgctcat 240

cgcgctgggg gccttcctnc tcgcgctctc cctggcgggc ctcgtcg

287

<210> 52116

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-G4

<400> 52116

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tctaacctcc tgatgatggc actcaacggc ggttgagaaa agaccttcgt gtccatcctg 120
acgacatgct ttcttggtgt ggttgtaatt gtttcctat cctgcgaagc aaaaggcggc 180
gtcgtcccca ggttgcgggc accattctgc tttccatacg atcgtgaata ctgcacgcca 240
tttcaactgc gcaaagtttg ccaagagtac aacttcctg ctaagaatgg cggctactgc 300
gataaacgtg gtgacccatg gaagtgtgc tgtccatatt gaaacgtaca aaatgcatgc 360
atccatccgt gctgctacct gatcgatata catgtcaatc atcatcaata tatataatga 420
atgaantaaa tgcattgtg 438

<210> 52117

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-G6

<400> 52117

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cgggttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
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ggagctggac ggccgcaaca tcaccgtcaa cgaggccag tcccgcggcg gccgtggagg 360
cggcagcggg gggtagggtg gtggccgtgg aggcggcggc tacggcgggt gcggggcgccg 420
tgatggcggg ggcggctacg gcgggtggcg cg 452

<210> 52118
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-G7

 <400> 52118

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 ttgtagtaaa gaaatgagca agagaagaag gaagactagt cagacaaaat agaagacgag 120
 aagaactgat gtagccatgt tcatgcttcc atgtaatagt tcattattcc atacatattt 180
 ctgtctatcc agaatctact attgaaatac atatctagca tagcttgctc agctcctata 240
 tgttgtttca acgttgattt aaaagaagag ctggtagttg tgggcttttg aac 293

<210> 52119
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-G8

 <400> 52119

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 tgatggcatt cagaaccatc acagtgacct tccatttggt caagctcaca gcaattttgc 120
 tccatttatg tccccagatg gggatgattt ccagcaaatt gaggggtgtca agagcaacct 180
 caggaacatg cagtagagcc cttacggcgt tactagaagc tcgattctac cctgtgaagc 240
 ttaccaaggg ggcaacatgt gccgttttaa tggcttgtgg aactgaacat aacaaaagct 300
 tgtgcctgtt gcattctccc agaaattgat gtggttcggc tcatttgcgg agatgtgatg 360
 tgggtcaacga tataagatac atgctctctt tggttaagt 399

<210> 52120
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H1

 <400> 52120

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atgtaccatg ggagatgttc gctgactctt gccgcaggct caggatcatg aaaggatcag 120
atgcaattgg acttgctcca agggcagctg ataagtcaca gaatcgcaac tagaatggtt 180
gcttcttaca gtccagagca agagggagat atccagtgcac tgtagggatc tttgtggaag 240
ccggaaaacg tctaacagtt tcaagaagaa ttctgcctta tggctctgtac cacatgtttt 300
tgctgctacg caagtaaaga actccacgtc tgtcaatggt agttttacaa catcgtctac 360
ggacaaaaaa aaaaccccc gctatttgat tgttgctaaa cctttgtacg acgtgtaaaa 420
tgtttggtag aatgagtgtc gcgacta 447

<210> 52121
<211> 389
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-H11
<400> 52121

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ccagggtctg aagaaagagt tcagctataa caagatcctc aaggatctga agaaggaatt 120
ctgctgcaat ggtactgtag ttcaggaccc agagctaggc caggtcattc agctccaagg 180
tgaccagcgc aagaatgttg ctactttcct agttcaggct gggattgcga agaaagagaa 240
catcaagatt cacgggttct aagggaacctg taaatgcttg tgccctatat tgtgtgcctc 300
cacatattgg ggagcttgaa gcatcgacag ttactagtca ttgcttactt atataagaac 360
ataagtagta ttgctattg tcaagtgtg 389

<210> 52122
<211> 218
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-H3
<400> 52122

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gttatcgtat tccgcgagta aaaaggaaaa ctgctcgatg tccttttggt tgttgcttgg 120

taataaccgtt ctgtttgcta taattatcga tcagcgggat gtgaagtact gtttacattg 180
ctcgcgttct aataaagtac tgtttggact tgcttaac 218

<210> 52123
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H4

<400> 52123

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cagaaactgc aagtaaaca aaactgaaaa actaaaaaaaa aaacctctgg atgtcatgta 120
aataagtgtta ctttgtatgt tctccaatgt tgtttccttc atttgtctga ttgaatttct 180
aattaaaaaaaa aaaaacagaa ggtacaagcg ttagatacta catcaaagtc actgaacatg 240
taaagtctca agtaaaaact cttgaataaa gcttaaccaa gaaaaaaaaa aagggcgccc 300
cttttaa 307

<210> 52124
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H5

<400> 52124

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cgcggtcaag gacgaggtgt tctgcctgtt cgaggggggtg ctggacaacc tgggtcgtct 120
gagccagcag cacgggctgt caagcaaggg cgccaacgag gtgctcctcg tcatcgaggc 180
ctacaagacg ctgcgcgacc gttcgcccta cccggccagc ttcattgctcg cccagctcac 240
cggctcctac gccttcgtcc tcttcgacaa gtccaccaac tccctgctag tcgcatccga 300
ccccgagggc aggggtgccg tcttctgggg gatcacgctc gacgggtgcg tcgccttctc 360
cgacgacatc gacatgctca aaggctcatg 390

<210> 52125
<211> 466

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H6

 <400> 52125

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 cgggtgcttg tttgatgcag ctttggaat cattccaggg ctaaaggttc gtggaaccga 180
 ttactccact gcagatggaa cttgcgttag agactacatc gatgtcacag atcttgtaga 240
 tgctcacgta aaagctcttg gtaaagctca gccaggcaaa gttggaatct acaatgtcgg 300
 aacaggccaa ggtagatcag tgactgagtt tgtagaagct tgcaagaagg caacaggagc 360
 ttctatcaag gtcgaatatc tggcacgtag acccgagaa tatgccgagg tatacagcga 420
 tccgtcgaaa atccacatgg aactcaactg gacagcccag tacact 466

<210> 52126
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H7

 <400> 52126

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 tgatgcctgt atgccggcat tggacagcta gcgtggtagt atgtttcttc tttgtttttc 120
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 agacataaaa aagatcaggc ttgacctcct taac 214

<210> 52127
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H8

 <400> 52127

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 tgcttagtga aataacacat ttttcatttt tcttttgta atcagttgag gtactttata 120

<400> 52132
 atgcatacta tcaggctaga ccggtttagt atattaattc taaacagctc gtgtgatgtt 60
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 cggcggcgag gagcaggccg tcgacatggt gtcacggac tactgcatgc ccgagatgac 180
 cggctacgac ctntctcaaag ccatcaaggc actgaacccc ctggagccga tcccggtcgt 240
 cgtcatgtcg tcagaagact agccccagag gatcaacccg tgagccagcc ggctctggtc 300
 tttcctcttt ttgagcaccg gttcctttgg tccctatccc gtcccctgtg aatgcatgct 360
 gaatcattcc gtgagataga a 381

<210> 52133
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-F11

<400> 52133
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 ggcggctgcg gctgccagcc accgccgccg gttcatctac cgccgccggt gcatctgcc 180
 cctccggttc acctgccacc tccggtgcat ctcccaccgc cgggccacct gccgccgccg 240
 gtccacctgc caccgncggt ccatgtgccg tcgcccgttc atctgccgnc gncaccatgc 300
 cactacccta ctcaaccgcc cgggctcag cctcatcnc agccacacc atgcccgtgc 360
 caacagccgc atccaagccc gtg 383

<210> 52134
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-003-Q1-K1-F12

<400> 52134
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 ggtccccgga ccatccagca tgagactctt gccacagaag ctccctgctgc tgcccctgct 120

gctccagcga tgaatgctga tgcttgcagc ttccattcta aggctttcca agattgtctg 180
aacaactatg gcagcgagat cagcaagtgc cagttctacc tagacatgct gaacgagtgc 240
cgccgtggtg gtgtgtctgt ctaagctgcc tctgggatta ttcattggatt ttcttttcgg 300
atgagggtat ctcathtaata agacaccgtg aaacttcgac catctccaca gcttgaaacc 360
atacttctctg ggattaattt attt 384

<210> 52135
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F2

<400> 52135

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atgggggctg catgggccc taatggaacg gatgaatcaa actatgctgg tgaaggattt 120
gcaatggttt ctggaactag catggccgca ccgcatatcg ctggcattgc ggactgata 180
aagcagaaga acccaaagtg gagccccctca gcaataaaat ctgccatgat gacaacggcc 240
aatacactgg acaaaggag cgcctctctc agagcgcagc agtacactgc atcggaatg 300
atgacacttt ctggggccac accgtttgat tgtggtagtgc gcgctgttaa cccaaaagct 360
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tcgatccctg acg 433

<210> 52136
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F3

<400> 52136

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gggcggaggg tatggcggag gtgccggaag cggttacggt ggaggagctg gtggaggtac 120
tggcgggtgga tacggtggaa gtgcacgagc aggaagtggc tctggaggcg gctatggtgg 180
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tagcggcggt ggaggttatg gtggtggtgc cggaggctga agctgatgtg gaagttgagg 300
 tggcatcgga agcgggtgtgt gattcaacct cttacatcca tgcattggcgt gtacatgcaa 360
 gtgctcgacg cactgctctt tgcattttta gcatgcgtgg agtcaagcta atagcatgtg 420
 tgcatatac cgatcga 437

<210> 52137
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F4

<400> 52137

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 ccccggcacg gtccagtgtc tcggccgcaa gaagacggct gtggccgctc cctacaccaa 180
 gccggggcgc gggctgatca aggtgaacgg cgtcccgatt gagctcatca ggccggagat 240
 gctccgcctc aaggccttcg agcccatcct gctggcgggg cgctccaggt tcaaggacat 300
 cgacatgagg atccgcgtcc gaggcggcgg gaagacgtcg cagatctacg ccattcgcca 360
 ggccgtcgcc aaggggctcg tcgcctacta ccagaagtac gtcgacgagg ccgccaagaa 420
 ggaggtcaag gacatcttca cccggtacga cc 452

<210> 52138
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F5

<400> 52138

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 cgtgatcgcg tgccacacca aggacgagtt cgacgcccgc atggccaagg ccaaggagca 120
 gggcaagctg gtggatcatc acttcatggc cccttggtgc agtgggtgcc agatgatggc 180
 cccggtgtac gcggactgcg ccagcaagta cccttcgcgc gtcttcctcg aggtcgacgt 240

ggacgaactg ctggaagtcg cgaagatcta cggcgtccat gtgatgccga ccttctgctt 300
catcaggaac ggcgagacgc tgcagagctt tgctaccgtc gacgaggacg agctccggga 360
cgccgtcagg aagtacgccg ncgctggcac tacgacggct cctgccttcg cgtncgccta 420
attcaggaga tgtgatgtgt agcaaatagc gcgcgc 456

<210> 52139

<211> 464

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F6

<400> 52139

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cccaaattcc gtgactcatc ttccttctct ttgccaggct gcgcgtgcat accacggacg 120
gacgcactgc cccaatcta ctgtaagtaa tctactaatc tgtaaactctg taatccctaa 180
tcctagcttt gtggccatat atggacgcac gcaccgcccg gagaaggacc tgcccttgcc 240
gctgccgtcg gctcgcacgc gcacgcccac gcccgccttg ccgccgctcc tcttcctgaa 300
cagcctgcac ggcttctcct cggttgctgc aagcctgcaa agagctccgt gggtgtaggc 360
tgtagcctac tagcctctcc ctccccacc cncacacggc cacacacttg tcacttgngg 420
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<210> 52140

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F7

<400> 52140

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cgcttggtgcg acaacacgaa cctcctcttt tcctccacaa aacagcagcc ccgatcccct 120
ccgcacgcgc tgcttcgttc gacctgcgca gtcccaaccc gcgccgtcgc gatggtgttt 180
gagacagccc atgtcgtgtc gttgatctgc gcagttcgac cgtctacgcg tctcacttcg 240

52141 52142 52143 52144 52145 52146 52147 52148 52149 52150 52151 52152 52153 52154 52155 52156 52157 52158 52159 52160 52161 52162 52163 52164 52165 52166 52167 52168 52169 52170 52171 52172 52173 52174 52175 52176 52177 52178 52179 52180 52181 52182 52183 52184 52185 52186 52187 52188 52189 52190 52191 52192 52193 52194 52195 52196 52197 52198 52199 52200 52201 52202 52203 52204 52205 52206 52207 52208 52209 52210 52211 52212 52213 52214 52215 52216 52217 52218 52219 52220 52221 52222 52223 52224 52225 52226 52227 52228 52229 52230 52231 52232 52233 52234 52235 52236 52237 52238 52239 52240

ccggatctgc gcagcccca catcgacgcc gttcaccccg gtgagacgac gatgatcttt 300
gtttgattcc acatcggcac tgttctccgg tgattaaatt gtgtatatgt gctgttttgt 360
tttattttat tttgtggagg cgaggaaccc catgttttgc gtggagaaga aagcaagtcg 420
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<210> 52141
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-F8

<400> 52141

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caacctaacc ccccttcgg ggtgagtttc tatacaatcc gcgcagggtc ctaaaccatgt 120
ctactgtgct ccagcgtccg acctcctgca cgtttactg cttccatctc aagaacacct 180
ctgcacccaa tccctacacc tatcagcggc accaacttat catcgccaac tgcgtccaga 240
ttgagctcat cagaccgcac attctacatc ttaatgactt cgaactcatc cttctgccag 300
agcactctac gttcaaggac atctacatga tgatacgttt acgacgccat ttttaagacat 360
atcagatc 368

<210> 52142
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F9

<400> 52142

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cggcgtcaag atgagtcggc accctgaagt gaagtgggct cagaggatcg acaaggttta 120
catcactgta cagttacctg atgccaagga cgctaaggtc aatttggaa cagatgggtgt 180
cttcacattc tctggcagtg ctggtacaaa cttatatgaa ttgaaactag atctgaatga 240
caaagtaaac gttgaggcta gcaaaataag tgtgggtgtc aggtccatat tctgtattgt 300
agaaaaagct gaggccaaat ggtggaagaa acttggtcga gatgatcaaa gggcacctca 360

ctttgtgaaa agtgattggg acaaatgggt tgacgaagat gatgatgggtg ctgatgtcaa 420
cttgatggg atgga 435

<210> 52143
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-G1

<400> 52143

cccacgcgtc cgctcaccga ggtgcgcatg aacggcacct gcgcctggct gaggcccgac 60
ggggagaccc aggtgacggg ggagtacgtg aacgagggcg gcgcatgggt gcccggtccgc 120
gtgcacaccg tgctcatctc caccagcac gacgagaccg tcaccaacga cgagatcgcc 180
gccgacctca aggagcacgt catcaagccc gtgatccctg agaagtacct cgacgagaag 240
accatcttcc acctcaaccc gtccggggcg ttcgtcatcg gcggggccca cggtgacgcc 300
ggcctcaccg gccgcaagat catcatcgac acgtacggcg gctgngnagc ccacggcggt 360
ggcgcttct cgggcaagga c 381

<210> 52144
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-G10

<400> 52144

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gttgacaaga agactagaac cgaacctgac catgtcgctg atccgccgca gcaacgtggt 120
cgatcccttc tccctcgacc tctgggaccc ctttgagggc ttcccttcg gctccggcag 180
cagcagcagt ctcttccctt cgttcccgcg gaccagctcg gagaccgcgg ccttcgctgg 240
cgcgcggtac gactggaagg agactccaga ggcgcacgtg ttcaaggccg acgtaccggg 300
gctgaagaag gaggaggtca aggtggaggt cgaggacggc aacgtccttc agatcagcgg 360
cgaacgcaac aaggagcang aggagaagac ggaacacctg 399

<210> 52145
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-G12

<400> 52145

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 taatgcattc tgaatttaaa aagattacac aaagaaatag acgtatttct agaagtaagg 120
 ttgaagtaca tacctatctt acagtgaggt tcttttttct ttcagagtga atatgatggt 180
 cattggagta atggaatagt tattgacaga gaggaaagag aaacagtagt tgtgtaattc 240
 ctgcgagtga agaaaaacaa taatgtaagt gtatgctcta aaaatgaaga gaaaactgca 300
 caacctaacc cagttttatat gaaactataa ctctgcaatg tgtcacttcg atccttagat 360
 atcctttaag ttgggaacaa atagttttg 389

<210> 52146
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-G2

<400> 52146

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 ctgggtagct gtccccctcg cctcatccc tctcggcgc cgctgccggc ccgcctcccc 120
 cctcgtgccg ctctgccgcg gcgcattccg cgccgcctc gccaccgaat cgggcggaat 180
 ctcagcggga ccaaaatggg gtcgccgggt gcggggagca gcggcgcca cgagtgtctc 240
 ttcaagatcc tgctcatcgg ggactcgggc gtcggcaaga gcagcctnct cgtcagcttc 300
 gtcgccgct tccacctcga cggcgacatc gccccacca tcggtgtgga ttttaaaatc 360
 aaagtcctta cagttggtgg aaagaaacta aagttgacaa tatgggata 409

<210> 52147
 <211> 436

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-F1
 <400> 52147

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 catggccaag tcgaccgcga tgtttgtagc cgccctggcc ctggtggtgg tgatggcgac 120
 gacgagcaca ggcggtggca gggcggcagc ggcgtgcat cccaagccgc tgggtggtgtg 180
 cgatccggcg ttcatggacg gagcgaaacc cgcggcagca tgctgctcca ccctgcgtgc 240
 gcaggaggca tgcttgtgcy tgtacgccaa agaccccaag tttgcaaaat acatcaacaa 300
 ccccaacacc ggcaaaacct ttacctcgtg cggcatagcc atccccaaat gctaagcaag 360
 cgctctgcgt cgtcgcttcg ctagctcttg ctctcngtg taacatatnc agcttatgaa 420
 ntaaatatgt ggatca 436

<210> 52148
 <211> 463
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-D6
 <400> 52148

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 acctggtatt tctagtcaac ctggtaatat catccaccga agggagccta gtgggaagtt 120
 gtataattat gctgcagctt ctaaaggggc caagggtctg gatttcaata aggaggctaa 180
 ggggtgcttcc aacatcttag ataaagacaa agacaagtac ctccgcaatc cttgctcagc 240
 agaggggaag tttgtcatca tagagctttc tgaagaaacc ttagtagata caatcgcaat 300
 tgcaaatatt gagcattatt cttctaattc aaaagaattt gaactgctga gcagtctgac 360
 atatcccaca gaaaactggg aaactcttgg aagattcact gccgcgaatg caaaacttgc 420
 tcaaaatttc acttntcttg aaccaaagtg ggctagatat ttg 463

<210> 52149
 <211> 455

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-D7
 <400> 52149

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gtcatcttct cctcctcaga aaccaccaa ccccgccag ccgcccggctg tctcgccgc 60
cgccgccgcc gccgccgcc tatcccggtc cttcaggcga accagggttg tcatggcctt 120
caacaagatc aaggtctcca accccgctgt cgagatggac ggcgatgaga tgaccagggt 180
gttctggaaa tctatcaagg acaagcttat attccctttc gtagacctcg acatcaaata 240
ttttgacctc gggcttccac accgtgatgc taccgacgac aaagtcacag tggagggtgc 300
ggaggccaca ctcaagtaca atgtggctat caagtgtgcc accattacac cagatgaagc 360
angggtaaat gagtttggt tgaaggctat gtggaagagc ccaaattggca caattaggaa 420
tattctgaat ggcactgtgt tcagagaacc aatca 455
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<210> 52150
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-003-Q1-K1-D8
 <400> 52150

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atgcgtact tagaagcatt gctagacaga ggatcgaaag atgggttagt actgattaaa 120
aaatggctta ttgaagcctt gcagcatggg aagctaakat ctgcatcaa aggttggcaa 180
ggagccactt ctgtttcaga gattcgatct atggtgcaaa tgctttcccg agaccagttg 240
tcattgttaa aaaacagggg tggtatccag ttagcactag ctgctgaaat gactctacgg 300
gagcctcaaa gttctcgctg ggacgccttt acaagtgccg agagaatatt aagtgtgaca 360
tctgcagaga cacctcaaag tcttgccagt gagcttcgtg atttcatcaa cactagcact 420
ttagttgaat cacacacaca aactacttca atggagtctt caca 464
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<210> 52151
 <211> 393
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D9

<400> 52151

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ccgcgtccag atcctcctcg ccaacgaaat ccgcaacgtt gaagcgaagt tggcgaaggc 180
aaccgaacca tcgcctgagc cactggcggc ggcttctgcg ccagcgcccc cgcccgtgc 240
gcgtcctgtt ttaagctacg tcactcttgg gtcgttcagc tgggagcagg acaacgagaa 300
gattaggata tatgtttccc ttgagggagt tgagcaagag aaggtggaga ctactttcaa 360
gccaacatca gtggatataa agtttcatga tgt 393

<210> 52152

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E1

<400> 52152

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tcctttgttg caaacgctaa atttctcagc aattcttccg tcgtcggcgg cgcagattga 120
atgccaaaac cctagctcgc cctccccaat tccccatttc ggccacaccc tccttgccctc 180
cacggctcca cccctgcttc aggttacctg tgccagcgac gccggtagaa gccatggaca 240
gctctctcgc gagcgcgggc gcgatagccg atcagcgcca gacgatcgag cagtaccggc 300
acatcctcgc ctacgtcctc tcgtcttccc caccggacat ctctcaggcc aagcgcttgc 360
tcgaccacat ggtttcggac gaagttccgc tcgtggtgtc gcgtcaattg ctccagacgt 420
tcgcgagga ccctaggaag ctggagtcgg a 451

<210> 52153

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E10

<400> 52153

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gtcatctctg ctccctagcaa ggatgcccc atgtttgtcg ttgggtgtcaa cgagaaggag 120
tacaagtctg acattaacat tgtctccaat gctagctgca caaccaactg ccttgctcct 180
cttgctaagg tcatcaatga caagttcggg atcgttgagg gtctgatgac cactgtccat 240
gccatcactg ctaccagaa gactgttgat gggccctcat ctaaggactg gaggggtgga 300
agggtgcta gtttcaacat cattcccagc agcactggag ctgctaaggc tgttgcaaaa 360
gtgcttcct 369

<210> 52154

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E11

<400> 52154

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tgggtataac agccgcgggc agggatatagg ccaccatggt ctggccaccg caggtgacca 120
ggttcgcccg cctgaccacc tacac 145

<210> 52155

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E12

<400> 52155

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ccacacggaa ttagatatct gtggtgcact gattttgggc taacgaccg atttctatct 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aagagcataa aaagaaataa caattataat aagcgtcacc taaaatcaaa 240
tcaatggcca ataaaataca acaaat 266

<210> 52156

<211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-E4

 <400> 52156

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 cgtcctccct ggcggggggt taggctagct agagctgtac agcgcgagag cgacgaacgg 180
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 gcaactcgtc gcgcgcgtcg cgtcggggcg cggctccggc tccgggtccg catccgggtc 360
 gtcggtgtcg gcgtcgtcga tgccgcccaa ggggtgcatg gcggtgcgcg tgggtggg 417

 <210> 52157
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-E6

 <400> 52157

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 acagcatctc agcgccggcg ccatcgtcgg tcacgacggc agcgtttggg cgcagtccga 180
 gagcttcccc gagttaaagc ctgaggaggt tgctggtatc ataaaggact ttgatgaacc 240
 tggctactctt gcaccaactg gtcttttcgt tggaggtaca aagtacatgg tgatccaagg 300
 tgaacctgga gttgtcatcc gaggaagaa gggcactggg ggcattacta tcaagaaaac 360
 cggcatgtcc ttgattattg gtgtctacga cgagccaatg actccagggc aatgcaacat 420
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 <210> 52158
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-E7

<400> 52158

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attgcaaatt ttgcaaaatg tgaatctaga gcagctactc aaggaaataa ggtgggaaaa 180
tcactattaa tcgacgatgg atcgctccct tggattgtaa aaaatgccaa taacgaagct 240
gccccaatga ggcggcacat agagctcgca ctgtgtcatt tggcacagca tgaagtaaat 300
tcgaacgaca ttatcaatga aggagcccta tgggagcttg tacggatttc aagggactgt 360
tctcgagaag atataaggaa gttggcatac cggacactga catccagccc cactcttcaa 420
gccgagatga ngagactggg aataaaaactg tgatga 456

<210> 52159

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E8

<400> 52159

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aaaacttgag agggatttat acaatgaaag aaaggaccgt tttgacatta cacagatccc 180
agatgtatat gattcctgca agtatgacct tttgcataat gctcatctca atcttaaggg 240
tttgaagag ctattcaaag ttgctcaaat actcgctgat ggtgttattc caaatgagta 300
tgggatcaac ccaaagcaaa aactgaaaat cggctcaaag atagcgcgcc gtttattggg 360
aaaaatccta atcgatctac gcaacactcg tgaagaagct atcagtg 407

<210> 52160

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-E9

<400> 52160
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 ctcaagggttc cggtgccga tgaatgatgtc gtacgcgccg cagaacgagc acttgctgca 120
 ggaacagaca ctgaacaacg ctgctccggc tcctgagaag aggcagcggg ttccgtcggc 180
 gtataacaga ttcacatcaagg aagagattcg caggatcaag gcgaacaacc ccgacattag 240
 ccacagggaa gccttcagca cagcagccaa gaactgggca cattatccga acatccattt 300
 cggcttaaac tccggccgag aggggtggcaa gaataagctc gtggacgagg ctgtcgcggc 360
 ggtggcngtg gcttcgaaga agatccaagg tttctactga tcgatgccgg tcgatcgagg 420
 gatc 424

<210> 52161
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-003-Q1-K1-D4

<400> 52161
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 ctgctccatt gaccgagctt cgagagccgc ctgttgccgt accaggaccc gtccctgaac 300
 gagaccttgc tcgggcacct gagccggaac tgcccgcaca aggtcaccta cctgcggacg 360
 ccgaatgaca tgcacacgca cgtcgccttc tacaacaagt actacgacca cctggtgaac 420
 cacgacgggc tcttc 435

<210> 52162
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-003-Q1-K1-B9

<400> 52162

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 gccgagctcg ccagcaagtc cgtggtcgga gaccggttca acccgagtgt cagccaaggc 180
 ccccaggttg acaaggacca gtacgagaag gtcctcaggt acattgacat cgggaagcgc 240
 gaaggcgcca cgctggtcac cggagggaag ccctgcggcg acaagggcta ctacatcgag 300
 cccaccatct tcacggacgt caaggacgac atgacgatcg cacaggatga aaatctttgg 360
 ccgtg 365

<210> 52163
 <211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-003-Q1-K1-C1
 <400> 52163

aaaaaaaaa aataattaaa aaaaaaattt tttaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 ggggcttatt ataaaacatc tgaccctatt aaatacacca aaataacatc ttatttcttt 120
 tttatagtcc cctctaatta actctctctt catcaatttt caccacctta acttttaaaa 180
 cactttaatt cccaaccttt tactcttcta aaaccatatt cctttcaccc ct 232

<210> 52164
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-003-Q1-K1-C10
 <400> 52164

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 ggccaccagc aacgagtcgc tggagaatgc cttcgcctcc tacggcgaga tcctcgactc 180
 caaggtcac accgaccggg agacggggag gtcccgcggc ttcggcttcg ttaccttctc 240
 ctccgagaac tccatgctcg acgctatcga gaacatgaac ggcaaggagc tcgacggccg 300
 taacatcacc gttaaccagg ccagtcctcg tggcgggtggc ggtggcggcg gtggctactg 360

cggtgtcgc gccggcgcg

380

<210> 52165

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C11

<400> 52165

cccgggtcaag ctgcgcctt tcagcccga ccaggaggac gcgtcggtgc tgtggacgga 60
gagcaaggac gtgggcaagg gcttcgcgtg catccgcgtg gtcaacaaca ccgcctcaa 120
cttcgacgcc ttccacggcg acaaggacca cggcggcgtg cacgacggca ccgccgtcgt 180
gctctgggag tgggtgcaagg gcgagaacca gagctggaag atcctgccgt ggggtcccga 240
ggccaactcc tccgcggccc acgcgggagg cccgcacgcc gtgcgcgtct tctgcaaagc 300
cggcggcgag gactacagcc tcacggtgcg caacggcacg gcgtgcctgg cgcccacaa 360
cccgcgggac gagtaccagc actgggtcaa ggacatgcgc cac 403

<210> 52166

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C12

<400> 52166

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gcgactgcat gtcccctaac gtggagaccg ccgcgccag cagcatcaag accacggtcc 120
tcgccgcgcc gaccaccaag gccagcgcg gcggcttcga ggcggccacc gagggcggcg 180
gctgcgactg caacacctgc aactgcggca ccagctgcgg ctgtcctgc tgcagctgca 240
actgagccgg tcaggcgatg gcgcacgaga gtcgagagga cgacgacgag tcgtataaat 300
ataatagcgg cgtctaaata agatcctgtc aactgcaccc ggcattatcg atccatggtc 360
gtcctgggg ttcatgttca tct 383

<210> 52167

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C2

<400> 52167

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tgctgcacca tttcctggga ggatactgcc ggtagatcta acaaacttta gtggagaact 120

tctttgccag gcagatgctt ttctatgttc ggtcaatgat gtctccgtct ctagtacagt 180

tgagccaagg ccacggaata ttgagattgg tgcagagatg atccttaaac aaaaacttag 240

gggccagggg atggcttttc ttgttggtgg tggatcagtc atgcagaaaa tccttgctcc 300

tagagaggtg ataactgttg atgctgcttg tattgtggct atgtcggcca ccattaactt 360

ccagttgaag agccctaacc agcttagaag agcagttttt gggggtgata accagctaac 420

ag 422

<210> 52168

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C3

<400> 52168

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atgatgatga tgatgatgat gagggtggtg acgacgacga tgaagacgat gatgatgaag 120

aggggggtga tgaagatgat gatcctgagg ctaatggtga aggggggagt gatgatgacg 180

acgatgataa cgatggtgat gatgatggtg acgatgatga cgacgatgaa gatgatgacg 240

aagatgaaga tgaagaggat gacgacgatg aggaagaaca gccaccttcc aagaagaaga 300

agtgatttgc tctttcatgg attcacctca gcttctccat gctgttagtt gtgttggtta 360

gatcatggaa cagctttggg acaaagtgtg cttgtcatgg tattatagtg taggaaacct 420

tgacatctga tgtaaaatc g 441

<210> 52169

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-C4

<400> 52169

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ggcgcaagcc ctagccaccc ccgcccattc atggtgggcg ggccgtgaga tctctaggga 120
ggcttgctcg cttcgtcggg cgggagggga ggagatgggc gcccggaaca gcgctgccgc 180
cacgccgtg ctgctcaacg tgtacgacct tacggccgcg aacgattacc tctactggct 240
cggcttcggc gtcttccact ccggaatcga agtccatggc acggaatatg ggtttgagac 300
ccacgactac ccatccagtg gtgtgtttga ggtggaatca aagagttgcc ctggctttat 360
ctacagaaga acagtgtggc taggcacaac agacatgtct caggaagaat tccgctcgtt 420
tattggaaaa cttgcanngt gatatcatgg cgacacatat catttaa 467

<210> 52170
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C5

<400> 52170

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cgcatttatg ttcttgatgt aataacccat catacttcag tcctcatcta ttgccatttg 120
cttgataaaa aattggctat acatatgctc catggaatga agtctctaca tgactatcac 180
tctgtatcga ttggttgtag acttgtgggc attatca 217

<210> 52171
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C6

<400> 52171

gtcatcttca aacgacgata atggctggga tggcttccag tctgcacaac cagtacctag 60
ttcagagaaa aaagattctg ccaaaccagc agaaagcaag acccagtcta catctggaat 120
ggaagactta tttaaagact caccagctgt gccattatcc tcagctccag ctgtttccca 180

agtaaacgct aagaatgata tcatgagttt gtttgagaag tccaatatgg tatcaccttt 240
cgctgcccac caacagcagc tggcgctcat gtctcagcag caagctcttc taatggctgc 300
tctcaaagct ggaaatgcac cacaaatgat gattccaggg actgccaatc agctaaatgc 360
taacggaacc ttgcctttcc aaaactggac aaatctttat caaaatcctg ggtcgactcc 420
agcagcagca cagaatggtg 440

<210> 52172
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C9

<400> 52172

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tgttatattt gagaagttat atattgtata tacagagaga tgcagctgtg tattatttgc 120
tgtagcttcg attgcgagac gcatggttgc agtcatttta ttgtagttag tttatatgat 180
acgtcgttgt caccgcatga agattaactg ctgtgccata tgaagacctc ctgcctcatc 240
acggtgtttg tatataagat caactgcagt gcctacacgg tggacggagt atttgtatga 300
tgtgaaggtc actattcagc atcgtcagta tgaaatggct atggccttca aagcttaaaa 360
a 361

<210> 52173
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D1

<400> 52173

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aggatatctg cttggacatt tcttccacca gagaatggtg aagccattca gatattacac 120
taccagaatg gtgagaaata tgaacccac tacgactact tccatgacaa aaataatcag 180
gccctgggag gccatcgcat tgccactgtg ctgatgtacc tatcaaagt cgagaagggt 240
ggagagacca tcttcccaa tgcagagggg aagctattgc aaccaagga cgacacttgg 300

tctgattgtg caagaaacgg atatgcagtt aaaccggtaa agggatgatgc cctgctgttc 360
 ttcagtctcc accctgattc aacaacagac tctgacagct tgcacggtag c 411

<210> 52174
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-D11

<400> 52174
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 gtagttaaac aacacatctt gctggaacgc agaagataga acatacagga agaaaatatg 120
 tattcgtgcc ccgactccat atgaccatat ataagtaaac actgtttgat gtaaatcaaa 180
 gattcagctg tctatgggag ctgttctagt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaacaa ataaaaaaaaa aaaaaacaaa aaaaagaata ggacaaaaat 300
 acataat 307

<210> 52175
 <211> 155
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-003-Q1-K1-D12

<400> 52175
 aaaaaaaaaa aaaaaaaaaa aaaaaattat aatttaaaaa aaaaaaaaaa aaaaaaaaag 60
 aaaagggttaa ataaaaaaaaa aaacaaaaca aaaacaaaat aaaaaaaaaa aaacataatc 120
 ttgtccattt tcatgtctcc caccttcctt cccct 155

<210> 52176
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-D2

<400> 52176

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gaaggctatc gtcaatgtca ttgggtatgac taaaatgact ccaccaatca aggatcttct 120
tcctcgtctg acccccattc ttaagaacag gcatgagaag gtccaagaga actgcattga 180
tcttggttggg aggattgctg atcgtggagc agaatttgtg ccagcaaggg aatggatgag 240
gatttgtttt gagctgctcg aaatgttgaa ggctcataag aagggtatta ggagagcaac 300
tgtgaacaca tttggttata tcgcaaaggc tataaggcca caggatgtgt tggccaccct 360
gttgaataac tngaangtgc aagaacgaca gaaaccggtc tgtacaactg tagctatngc 420
tatangtgct gaaacttgct cacctttcac 450

<210> 52177
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-B8
<400> 52177

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agttgcgcca tattgtacag cgcctatagt acttcccccc tccctggccc taaatccagc 120
cagggttttc ctctccctc ctgggtagcc gtggccgcct gtagtccctc cctcgtgtaa 180
ttagaaccgt gtaccgagtc gagttcattt acccactgtt tgagggtcca gagagttgag 240
atttaaattt taagtggcgc cattgccctt cctttcttcc tcccctccta agtattaact 300
ttgttgcggc cattgttgtc gtgactctgg ccatagatcc ttttatgtac atgcgaaatg 360
taaccaaggg atatggaata agaacatgtt catcctgttg tagacaaa 408

<210> 52178
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-D3
<400> 52178

cggcttgatg cttggtattc tgaccggagt ggttccgtgg agagcaccgc tgcttacagg 60
atgggagggc tgtgtcggag gtgctgcctt cctgaaacaa ttctaagatc tatgcaggca 120

tgtatcgcac tctccgcggc tggatgatgat ctagattact ctctagataa atgtgacgaa 180
 cttgttgagt tagttgggtc agccgagtc ggaatgatgc atttggtcag ccagcagcag 240
 ttgcaggagt tcctgatttt cgagagggaa tatctcatat gtacaatgga gtttgaggag 300
 gaccgggttc cttgtgatgg ctaagctttt tccccacttg ctgactaatc catgagacat 360
 gaccggcatg tgcattttgt ggcgcctga cccaagaacc tgctgtgatg tatcgctaca 420
 ccatttcaaa agcgaaagat ggaatttagt gcgtaacg 458

<210> 52179
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A3

<400> 52179

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 tgggggtaat aaaggaaggc ggatcatatg tgcttactgt agcgataaag atcagtacat 120
 tgctacagct tctattggat gatgacattc tggattcgca tactgcatac tacgaagccg 180
 gcggctagaa tgtctaaact catgtactat gagacgcagc agagaatgag atacttggtg 240
 tacaacttca aggaccacca gaactgctgc tcgatctacg cttggaagga gatcaaggac 300
 tgcagctggt gcgactacag agttaagcac aaagggtgc 339

<210> 52180
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A4

<400> 52180

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 caaggtgcaa gtacgtctgt cgcaaaaaca agccagagct gttgagggaa ggaaacctcg 120
 aggaggcagc aatggtggat gtttggtatc aggtggaggc taaccagtac accgctgcac 180
 tgaatcccat cctcttccag gtcctcatca gtcctatgct tgggggaacc accgaccaga 240
 aagttgtgga tgagaacctt gagaagctga agaaggtgct agaggtgtac gaggcacgcc 300

tgaccaagtg caagtacctt gctggagact tctcagcct cgccgacctg aaccatgtgt 360
 ctgtcactct ctgcctgttc gctacgccct acgcatctgt gctcgacgcc taccgcgatg 420
 tgaaggcctg gtggtctggt ctgatgg 447

<210> 52181
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-A5

<400> 52181

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 gcgtcgagct ctacgccgag aaggctgtca accgcggcct ctgcgccatc gcgcaggctg 120
 agtccctccg ctacaagctc ctccgaggcc ttgccgtccg gagggcctgc tatggtgttc 180
 ttcgctttgt tatggagagt ggtgccaaag gttgtgaggt cattgtgagt ggaaagctca 240
 gggctcaaag agccaagtcc atgaagttca aggatggcta catgatctca tctggtcagc 300
 cagtgaatga gtacatcgac tcagctgtga gacacgtnt cctcagacag ggtgttctgg 360
 gtatcaaggt gaagatcatg cttgactggg acccgaaagg gcaggttggc ccgatcacc 420
 ctcttccgga cctggtgacc atccataccc cg 452

<210> 52182
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A7

<400> 52182

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 gaaaacacgg gcccacatcaa gcgtcagag ttccattaca tggatatcagt gacttttgctt 120
 tactgtgatg ttcaactccg gataaaaacg tctcagttga acacagacac ccacaaaaag 180
 tcataggata cagagtgtgc ttcacgtaat tacatccatg agctggatgc ctctcgtgcc 240
 cgggctcgga cgtgttcagc tggacgcgac gaagccgatg ctgaaccgga acgagatgca 300

gagtaatgct agttt

375

<210> 52185

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B1

<400> 52185

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gctgatgcta tcgatgacga gatcagtgtc aaggacggtc tgatgaccac tgtgcatacc 120

attactgata cccagactac tgccgatagg acctcatata aggactgaac taatgacagg 180

actgctagaa ggaacattat tcccaacatc actggcactg ctaatgctgc tggcaaagcg 240

cttgctgtac tgaacgggtga gcttaccgga atgtcgactc gagtgccaac cggcgatcga 300

accgtcgatg attctactgt taagcttgca gagtcaccag cctatgatga gatcaatgat 360

ga 362

<210> 52186

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B10

<400> 52186

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acgccccgcc gcggctggac gaggcagatc gcacgtctta ctccaccttc tgcggcgccg 120

ccaactccct ctcccagctc tacgcgcagg ccatggccca gcagaagctc aacttccatg 180

ccggcgagcg ccacgcctta gaaaagctct accagtggat cttgaggaag cacgatgaag 240

aggctaggct cactgtggct gaaataatgt ctcatatcca gcatgagata gactatgtag 300

gtactgatgc acatgtctcc ccaagagtac ctcagcatcc tcagattgca aatccattcg 360

ccaattca 368

<210> 52187

<211> 388

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-B11

 <400> 52187

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 agctgaagaa gaggggctat gaggtgctgt tcatggtgga tgccattgac gagtattcta 180
 ttggacagct gaaggagttt gagggcaaga agctcgtctc tgccaccaag gagggcctga 240
 agctggacga gagtgaggat gagaagaagc gcaaggagga gctcaaggag aagtttgagg 300
 gcctctngca ggtcatcaag gaggtgctgg gcgacagggtg gagaagggtg tggtctccga 360
 ccgcgtggtg gactccccct gctgctcg 388

<210> 52188
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-B12

 <400> 52188

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 tgcgcgcgta ggcctcgtct tgtccttccc cagcacaacc tctcctctc cttcgccagg 120
 tgctcttcg ttctcctctc cgggctatca ggacgaaata actggccgcg ctgcacgccg 180
 gccgcctcga gaagaagcgc tcgccccgcg cgcgcggtc cgggctacca ggacgaaata 240
 actggccgcg ctgcacgccg gccgcgcga gaagaagcgc tcgccccgcg cgctctgccg 300
 ctggttcggc cgtgccatcc cgacgaggtt ccccagctg tgcccgtcg atctccttcc 360
 gcgcgcacgc gcacg 375

<210> 52189
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-B2

<400> 52189

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gcgggctatg aagaaagctg aagctgcggg caatgataac tgtcctgtga agattaagct 120

agttgctcct ccactttatg ttttgaccac acagaccctt gacaaggatc aaggcatttc 180

agttctcact actgcagtca aggcttgtag agcagagatt gaaaagtaca aaggaaagtt 240

agtagtgaag gaaccaccaa gagctgttag tgagcgggaa gacaagctat tcctcgacca 300

gattgattcc ctaatggagc aaaacgcaga ggtcgatggt gatgctgaca gtgaagagga 360

ggaagatata ggaatggggg acgtcgacat taaaaattct tgcgtcgctg cttactaagg 420

ctacactggt tgatttggat gagctttgct gtacagcacc agc 463

<210> 52190

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B3

<400> 52190

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ggccagcatg tactcggcaa tgctcttgac tggctggtca acttcggttg gtgagagcgg 120

aaagcttgtg gatgttgggt ggccatctgt ctgggtcagg attgcaacc agtgggcgac 180

ggcaggctctg ttcatatggt cgcttggtgc acccgctctc tttcccgaca gggaattcta 240

agttcaacca cggtaaagcct ggagcatcaa acgtgtctac tgtggttagct aatatatcct 300

atcaagtatg ttgcctttaa aacatgctcc gagtcggtgt ttgccactg ttatcaagtt 360

tgtctactta ataacatgtg actttaggca ttgtgccact atcttaacag tgaacgtgtg 420

ctgcttgat tgtgtatata ctggagaatt taagaatgc 459

<210> 52191

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B4

<400> 52191

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 agggaggatt ttcattgggac ccactgtaga tttctaattgc cactgcactg ggctacctga 120
 ggcagcgcac cttgagctta gcgatattgc atatgtttgt taaaattggg atatcaagtt 180
 gctggtgcaa aggttttttc tgaaatatat attgatcttg tgttggtattg gt 232

<210> 52192
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G6

<400> 52192

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 gccgcagctg cctgctcgcc attactgcaa gctgtgttca atcaaagctt aattaggctc 120
 cctctacatc tgatccagct aagtagctag ccagcactac agaagggcgt ggcaagaatc 180
 aggagagaga tagcaggggg gctagctagc tgagctcgtg cgacgaagaa tggccggaat 240
 tggcaggaac atggtggcgc cgctcctggt gctcaacctc atcatgtaca tcatcgatc 300
 cggcttcgcg agctggaacc tgaaccactt catcaacggg cagaccaact accccggcgt 360
 ggccggcaac ggcgcgacgt tctacttct g 391

<210> 52193
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-G8

<400> 52193

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 ccagcccatc ggcacggcgg cgcaaggcac ggacgacaag gactacaagg agccccgcc 180
 ggcgcccgtc ttcgagcccc gggagctcaa gtcttggtcc ttctaccgcg ccggcatcgc 240
 cgagttcgtc gccaccttc tcttctcta catctccatc ctcaccgtca tgggcgtctc 300
 caagtccacc tncaagtgcg ccaccgtcgg catccagggc atcgctggt ccttcggcgg 360

catgatcttc gccctcgtct act

383

<210> 52194
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G9

<400> 52194

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caacacaagc atgagaagga aaagaagaag acataacaac tgagcgccaa caagttctcg 120
gaagcgccag cccatcggca cggcggcgca aggcacggac gacaaggact acaaggagcc 180
cccgtcggag ccgtctctcg agcccggcga gctcaagtcc tgatccttct accgcgccgg 240
catcgccgag ttcgctcgaca ccttctcttt actctacatc tccatactca ccgtcatggg 300
cgtctccaag tccacctcca agttctccac cgtctgcatc caaggcatcg gctgttcctt 360
cggcggcatg atct 374

<210> 52195
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-H1

<400> 52195

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ggaagcacgc accccgccgc cgcgtaccct cccctcaccc gctttctatc gccggccgcc 120
gttctgcgcg acgcggattc gaatccggaa agcggggcat gggggcgaag cgcgcggtgc 180
tggtgggcat caattaccag ggcaccaaag cggagctcaa gggctgccac aacgacgtcg 240
ctcgcgtcgc ccggtgccta cgcgaccgct tcggattcga cgagtccggc atccgcgtgc 300
tcatagatga cggctccgcg ccgcagccca cgggggcca catccggcgg gaactcgcgc 360
gcctcgtcgg ggacgcgcgg ccccgtagacc tntctttttt cactacagcg ggcacggcat 420
acggctgccc cgcgagaccg ggaatgacga 450

<210> 52196
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-H10

 <400> 52196

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 ctggttcgtg ggcgagaggg aagagatggc ggcgtcggac gttgagtacc gttgcttcgt 120
 tggcggcctc gcctggggcca ccgacgacca ctccctcaac aacgccttca gcacctacgg 180
 cgaggtcctc gagtcgaaga tcctcctgga tcgggagacg cagaggtccc gcggcttcgg 240
 cttcgtcacc ttctccacgg aggacgcgat gcgcagcgcc atcgagggca tgaacggcaa 300
 ggagctcgac ggccgcaaca tcaccgttaa cgaggcccag tcccgcggcg gccgttga 358

 <210> 52197
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-H11

 <400> 52197

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 ggaacaaatc accaccacca caccagcaat cgcaagactc cttcgagccg gaggcataatc 120
 ggggtgaaatg gaacaaatca ccaccaccac accagcaatc gcaagactcc tttgagccga 180
 aggcataattg ggtgggatgg aagaaacatg cgcaaggagc aacggacgtt gctgatgaga 240
 caacgccagc acgtggatcat ggtctgcatg tcgcgaccgg gatgctcttc acgaggaaga 300
 gcttgcttcc agggacagcc ctaccggaag gtaccaagtt ctgcggccac ggcttcctcg 360
 atcccagagag gtttgaacta 380

 <210> 52198
 <211> 243
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-H2

<400> 52198

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 60

aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaacaaaaaa taaaataaaa taaaaaaaaa ataaaaaaat 180

gaaacaccat aataaaaatt attttaaac caaaaaactc aattgctaga aattctaact 240

ggc 243

<210> 52199

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-H4

<400> 52199

gcaacataga aagcacaata gtgtaccaac aatggcagcc aaaatatattt gcctcgttat 60

gctccttggc ctttctgcaa gtgctgctac ggcgaccatt ttcccgcaat gctcgcaagc 120

tcctatagct tcccttcttc ccccgctacct ctcaccagcg gtgtcttcgg tatgtgaaaa 180

cccaattctt caaccttaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240

acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300

ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360

ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420

tttgcaacaa ncacaactac ca 442

<210> 52200

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H5

<400> 52200

aaaaaaaaaa aaaaataaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aagaaagaaa 60

aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattaaaaa aaaaaaaaaa 120

atttaaattt aaaaaatttt tatttaatat aaaaaaaaat aaaaacaaaa aaataaa 177

<210> 52201
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-H6

<400> 52201

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 gcaaggaggc aacgcgatac ctgtaggcgg cctcgttgag acgttggtccc tatcgtggag 120
 gtcttcctct cgacccagca gccgtagccc agctgtagcc caactcagat ctctgctgta 180
 acgtcatcca ataggctaag gagttccttg gtgcttcggt tgacaagcga aaggaagtca 240
 tctgcagtat ggaggaggca gataagctca gtggttctgc tgcaaggcta aggagttcct 300
 tggtgcttcc ggtgattctc tntctgttgt aaagcagcta tcctgcgagt gcctctacac 360
 a 361

<210> 52202
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H8

<400> 52202

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 cctcccgctt ccgccgcgcc tgacgaacgc agtataggac tgtgcaggta gagaggagga 120
 ggggtccggc agatggggat gcgagataag aagcggaacc agaagcgagt gctcgcgcgc 180
 cgtaccgcgg caccgcgccc aggcgagggc aaggatttcc tgccgctgga aggaggcccc 240
 ggtaagaagc atctgaaggt gcagcagcct gaagagcccg aaaacacagc cacaatcgtc 300
 tacattgggc atatccccca tggtttctac gaggacgaga tgaaagggtt ctttaagcag 360
 tttggggata ttaagagggc taggatcgct cgtaaccg 398

<210> 52203
 <211> 376
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H9

<400> 52203

cccacgcgtc cgggcacata accgtgctct agttgaggag cgtgaactgt taagcgggga 60
aatacaagct ggaaaagatg aggtccgcca cttgaatgtg atcattgctg acattaacac 120
tgagaaagaa gcttatatca gtaagcttat ggacaagagg aggaagcttg aagctgaact 180
tgagcaagt gagcacttgt gtgatgaggt caggcatctt cgtggtgaaa ttgacaagct 240
cgttaccgct cggaaagaac tatctgcaga ggctgcatct ctcgtggaag agctgaacag 300
ggagcaatct gttaaacagc agctacctgt gctgaaaaca gaaattgatg gtcttgacac 360
ggaacttggt cactgtg 376

<210> 52204

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A10

<400> 52204

cccacgcgtc cgtctcactc tcagctgggc gctcactctt gcagctccac ccttcacgca 60
gtcttaggct cttagctcta ggctctagct agccgcgcca ctccctcgtg tagccatcag 120
ccttctcatc gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcgggccg 180
aggaagcgcc cgtggtggag accccgccgc cggccgtcgt gcccgaggag tctgcccccg 240
ccgaggccga ggccgaggcc gaggctgagg ctgctgctcc tgctgatccc gaggagcttc 300
ccgcggccga gcagcaggca gccgccgagc ccgaggccgc tgctcctgct ggtgccgagg 360
agcccgccgc ggccgatc 378

<210> 52205

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A11

<400> 52205

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 ttgacacgga taaagactgg tggttttgag tgggtttcgc cagatgaaac tgatagagct 120
 ccatacagtg ctgtggaggt tgcagtgtta tcagaatctc atgacctttg tattaatggg 180
 gactgttttg aaatgctaca aagtactgag gctgttctcc aggttatccc ttatgtgaag 240
 gttttttcac gtgttgctcc agaacaaaaa gaacttgtag taactacatt caaaagtgtt 300
 gggaggggtga cactgatgtg tggagatgga accaatgatg ttggtgcact gaagcaggca 360
 catgtcggcg ttgctctttt gaatgctg 388

<210> 52206

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A12

<400> 52206

gggtccactt caagaacaca agggagacag cttttgcgct tcgcaagctg cctttgggca 60
 aggctaagcg ataccttgag gatgttattg ctcacaagca ggcaattccc ttccggagat 120
 actgtggagg tggttgctgc accgcacaag caaagtctcg ccactccaat gggcagggtc 180
 gctggcctgt taagtcagcc aagttcatat tggatttgct gaagaatgct gagagtaacg 240
 ctgatgtgaa aagcttgagc gtggacaacc tctatgtttc acacatccag gtgaaccaag 300
 cccagaagca gaggcgccgc acctaccgtg ctcacagacg cattaaccct tacatgtgct 360
 gcccttgcca cattgagctg a 381

<210> 52207

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G5

<400> 52207

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 aggggcgccg gcggccgcat tgtagagtac gtcgagcttg ttcactgccg tcgcggcctc 120
 aaagcaagcc acatcatcga tggcggacgc agctcacgctc ttctgtctgg tagcgggtggc 180

cgccgcgctc gccggccgct cagacggcgc gtggtgctg tgccgtccg agctggcaga 240
cagcgcgctg caaaaggcgc tggactacgc gtgcggcgcc ggcgccgact gcaagcccat 300
cctgcagagc ggcgcctgct tcgccccgga caccgtcaag gccactgct cctacgccgt 360
caacagcttc taccagcgca acagccagaa cccgcagtc tgctgttct ccggcaccgt 420
cacgctcagc aacagcgacc cg 442

<210> 52208

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F11

<400> 52208

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agcacaggcg gtggcagggc ggcagcggcg tgcgatccca agccgctggt ggtgtgcgat 120
ccggcgttca tggacggagc gaaaccgcg gcagcatgct gctccaccct gcgtgcgcag 180
gaggcatgct tgtgcgtgta cgccaaagac cccaagtttg caaaatacat caacaacccc 240
aacaccgcca aaacctttac ctctgcggc atagccatcc ccaaagcta agcaagcgct 300
ctgcgtcgtc gcttcgcttg ctcttgctct tgggtgtaac atatccagct tatgaataaa 360
ttatgtggat cagttaatta gtgggatgaa aa 392

<210> 52209

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F12

<400> 52209

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aagaacagaa aaccgagagc ctgatgaggc tctcctgggc gcttgttcac tctagacagc 120
ctgaagatgt caaccggggc atcggaatgc ttgaagcttc attggacagg tctagcagcc 180
cagaggaaac aagggagaag ctctacttgt tagctgttgg tcgttacaga actggggatt 240
atacaagaag ccgacagctt ttggaaagat gcttagagat ccaacatgac tggagacaag 300

ccataacttt gcaaaggctc gttgaagaaa aaacccaaaag agatggatatg aatggcat 358

<210> 52210

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F2

<400> 52210

gtgaccggga taaaaacggc acaggctgac gtggaggtga gcttcgaggt gtcggggggcg 60

gccctggccg gtgccgagac gctggacccg gcgctggcct acgacgcgga gaagctgtgc 120

ggcgtgaagc gcgcggacgt gaggggaggc gtggggccgt tcgggctgtg ggtgctggcc 180

tccgccaacc gcaaggagag aaccgccgtg ttcttcaggg tgttcaagcc cgccgccggc 240

agcgacaagc ccgtgggtgt catgtgcacc gaccctacca agtcgtccct gaaccggaac 300

ctgtaccgtc cgacatttgc aggatttgtc gacacggaca tctcgaacgg caggatatcc 360

ctgagaagcc tgatcgaccg gtctgtcgtt gagagc 396

<210> 52211

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-F3

<400> 52211

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ggcccactgc atcccttcac tgctggagtg tatgttgac taatgatggc tcagattgag 120

gtccttagga agaagggcca ctcttactca gagataatta atgagagcct gatcgagtcc 180

gtggactcgt tgaaccggtt catgcatgct cgcggtgtgg cttcatggt cgataactgc 240

tccacaactg ctcggttggg atctaggaag tgggcaccac gcttcgatta catcttgacc 300

caacaggcgt ttgtgactgt tgacaagaaa gcaccgatca accaagacct catcagcaac 360

ttcatgtctg accctgtcca cgggtgccatc gaagtctgcg ctcagctgag gcccactggt 420

gacatctcag tgaccgctga tgctgatntc gtgcg 455

<210> 52212
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-F5

<400> 52212

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agctccgcgc cctcatcgcc gagaagagct gcgcgcccct catgctccgc ctgcgctggc 120
actccgcggg gacgttcgac gtgtcgtcga ggaccggcgg tcccttcggt actatgaagt 180
gcccggcgga actggctcac ggcgccaacg cggggctgga catcgcggtg cggctgctcg 240
agcccatcaa ggaggagttc cccaccctct cctatgccga tttctaccag cttgccggag 300
ttgtggccgt cgaggtcacc ggtgggcctg agatcccctt ccaccccggc agggaggaca 360
agcctcagcc gncacctgag ggccgtcttc ctgatgccac caagggttct gaccacctga 420
ggcaagtctt tggcaagcag antggtttga gtgat 455

<210> 52213
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F6

<400> 52213

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tgtgttcaac aagggaggga gacagatgca gatgcagtgt gagatgtttg catggaggcc 120
cctatagaaa caagtgaaat gtttaggcgc ccttgtgcac atgctggctg cattccttgc 180
aagaatacca ggggtggggc cagaatggca tgagctgggt gttcctttct aactcttctt 240
cttcttcttc tctcttctt ctttatttac attttcttt tatgtgtttt cgtctaatta 300
aagttctggt tttgtagttc taccgtgcaa ctcatgtac cggaaaagaa tatatgaaca 360
ggaaatccca tatgatcttt gccatcttt 389

<210> 52214
<211> 410
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-F7
 <400> 52214
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 ggcgtcgtcg tgccagaacg tggagattcc cggcaagccg acggagacgg ggacggcgct 120
 gctggagacg gcgacgggca ccatccaggg gttcgcgccg ctgagccaga tccaccagca 180
 cctgtgcgcg ttccacttct acgcggacga catggggcgg caggtggagg cgcaccactt 240
 ctgcgcgcac ctgaacgaag acgtgcgga gtgcctcatc ttcgacgggc ccggcgccgg 300
 cgcgcgctc atcggcggtg agtacatcgt ctncgagacg gtgttcctga cgcttgccga 360
 cgccgagaag ccggttgtgc acacgcacga gttcgagggt aaaggcgggt 410

<210> 52215
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-002-Q1-K1-F8
 <400> 52215

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 gttccttggt aggtatcatg acagaacagc aggaaggtgt tagcaagagc tcttcctcaa 120
 gtattagcag cagcactcag gagagtgagg aggaactgac catcggtacc cttataaccg 180
 aagcaacaaa cacaacaaac agtgccaaga gtcttgaaa gcgcctttca cacttagatt 240
 cgatcccga cactccacgt gttaatggga aaattccaga ttttaataat gcgacaattg 300
 atcatgaatc attattagaa agattaagca cttatggctt agctgaatat caaa 354

<210> 52216
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-002-Q1-K1-F9
 <400> 52216

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ttttgggcag ctatagtctg caaagtctag aaaaagtttc aattgggctg ggactacagg 120
 cgctgagagt acacatgtca gatgatacaa ctcatctatt catcacaagg acttccaagg 180
 aagcgcaaga tgtacttttg ctcttgagcg taactaactt gcccaaatta aaccacaaga 240
 tacattttca aagttgggag aacatccaag tcaaattggt cgagaaatgt attatacgca 300
 gaactgcata tacgggaata tgtctctact ctatgttgat gttctggagg aatgacgttg 360
 aagaagactc ccgttttatt agatccatct ttgtcattga atgctccata ttggtgtgca 420

<210> 52217
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-G1

 <400> 52217

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 cagacgggcg aacaagatga gggagatcat cagcatccac atcggccagg ccgggatcca 120
 ggtcggcaac gcctgctggg agctctactg cctcgagcac ggcacgcagc acgatggcac 180
 catgcccagt gattcctcgg ttggcgctgc acatgatgcc ttcaacacgt tcttcagcga 240
 gactggttcc ggcaagcatg tgcccagggc catcttcgtc gaccttgagc cactgtcat 300
 cgacgaggtt cgactgggt cgtaccgnca gctctttcac ccagagcagc tcatctcggg 360
 gaaggaggac gcagctaaca actttgcccc tggccactac acggttggga aggagattgt 420
 cgatctatg 429

<210> 52218
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-G11

 <400> 52218

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 tgcctgcata ggttgctaca cgtatatatt ctgaagaaga gatcgagatg accagcgtgt 120

ggaagaccaa ggttctgcct ggcctcaaca agatctttga caaggatggc aagaaggctg 180
cagctgcagg cttcttgaag tccttcaaca aggaggagtt tgacaaggag attgaggaca 240
agaagacaga gctggagccc aaggctgtgg aggcctacga agcatctcct cctgaggtca 300
aggctctctt caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360
ccaagttcct cgatgagctg gc 382

<210> 52219
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G12

<400> 52219

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accaatctcc aaggaagtat ccagtcctagt cattggaggc acaatgaact tgcattggtg 120
tcttcatata caagcgacga aagtaggata tggaacagtt ttgagccaga taatttctct 180
cgtggaaacc gccagatgt ctaaggcccc tattcagaag ttgctgatt atgtagccag 240
catttttggt cctattgtca tcacctgtc cttcttgaca ttccttgcatt ggtttctatg 300
tggtggttg ggagcatatc caaactcatg gtctgctgaa agtagcaatt ggctttgttt 360
cttcctaat 369

<210> 52220
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G2

<400> 52220

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gcatttgaga aggcttctgg aaagaaaatc cttttggtca tgggtcaacg gcgtcctggt 180
gatgctgagg ttcttttttc atcgccggca aaagcggaga gagagctgca ctggaaagca 240
aaatatggca tcacagaaat gtgcagagac ctgtggaact gggctagcaa gagcccttat 300

ggatacgcg catctgagtc tcccaagctg aatggcagtt cacgctgagc aacacgattg 360
 gtccttgtgg actcacttgt acatgagaca gtagtgccta ccaggataaa tgtagatcta 420
 gta 423

<210> 52221
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G3

<400> 52221

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 tacgacgcgt ccgggtcggt catggtctac tcctctctcg acaagcatct ggtggagaca 120
 attacgaacc cgggtgacag ccaggcgatg agcagcatca acctcttccc cgccggcttc 180
 tccctcgccc ccctcaccaa cccggacccg gcgccgaag agggctccgg cagcatcgca 240
 cagcctgggg cgaccgtgat gactgccggg ttccagattc tgatgaagat ggcccgtggg 300
 accggccttt gccctcgctc ggtgtcgctc gcggtcaaga tcatgtcaga caacatcacc 360
 aacatcaaag acgctctggt gaaaagccac cctgttttct acaagagcat tcagtctgtc 420
 gactgaatag cggcaaggga gaaaggagg tcgtccaatg c 461

<210> 52222
 <211> 114
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G4

<400> 52222

gtataactac tactactacg aggctagctg cgcgctgaac acagcgctgt aaaggagtgt 60
 tggtgtgcta aattcagaat gtgtaagttt aatttatggt attaccagtt aacc 114

<210> 52223
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-D11

<400> 52223
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 tgcacccaag ccaccacatg ccatacaaac cctagataac ccattcggac cgtctgcgta 120
 tgacgccaga catcccgaat ataatgtcgg acgggtccggc cacatggccg gacagtccgc 180
 gcatggagtc ggacgggtccg cgtattttacc ggacgggtccg gcacagagtt ttttaaggaa 240
 gatggatatc taactccgta ttcgtcccag ctagactccc catctcacca tacgacanca 300
 cagcatcata atataatcta tcaaacctgt gagagtgaga acctttcggg ccctagaaag 360
 ccagaaagga tggccagtcc tatgagcctc atanggcatt cattaacgcg 410

<210> 52224
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D12

<400> 52224
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 aatttaattgt ggagaacggg aagctatcct gccagatgta tcaacgtttt gaaaacatgg 120
 ggctgggggt tccattcaac atggaataat atcctctttt gacatatata atgggtcaag 180
 tttgagatct ttctccagga gattttgtcc atgttatagg ggatgctcat gtctatagaa 240
 atcacgttcg agctctggag gaacagattc agaagatgcc taaaccattt ccaattttga 300
 agataaatcc ttcgaaaaag gatatagatt ctttcatggc gtcagacttc aagctgggtg 360
 gctatga 367

<210> 52225
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D2

<400> 52225
 atcatatcct atattgaaga caggaactct ggcatacaaa cccagacatt gttgagacca 60
 tgcttgggca tctgcaaaca atcgtaaaga atagctctga atctaact gatgaaattc 120

gcgggcgatc gctggaagct tcgtcagccg cgtcctcgcc ggca

164

<210> 52229
<211> 292
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-D8

<400> 52229

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gttcagcaag gaagcccaag ccttcttgat tgctattatt gagaattttt gcattgatga 120
tgcaaaagaa ataaagaaaa tcgagaaagt aaccaaccat gatgtgaaag ccgtcgagta 180
ctttctgaag caaaggtgca gctccaatcc agagattgct aaagtgtcng agttcttcca 240
ttttggctgt aactttgaag atatcaacaa tttgtcacat gcattggctc tt 292

<210> 52230
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E1

<400> 52230

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gtacctttgg ccattgtctc ttgatcggtc cagtgttacg tcactactgt agagaagaga 120
acggttttgg tccttgaggc gccccgtgta ctggtgttgt cgctgtagaa ttgttactta 180
aacagtatgg tgatgattaa tctcagcatt ttttttcttg cagcaaaaaa aaaaaaaaaa 240
aaaaacaaga tgaaatatat tattttgtaa ttatgaccag gtgtactgtg ctatacatta 300
aaagtatata tttgtgaaaa aaaaaaaggg gcggccgttt taaa 344

<210> 52231
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E10

<400> 52231

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gatcagtgc atcgtgaaac atcatcttca ggtacttcag gcagaaaagg aagcactagg 120

gcactgcatg ctgaagaccc gtcaaattatt cacattggag taggatgcga ctcatgtggg 180

gtatatccga tacgtggtaa gagatacaaa tgccaggact gcactgagtt aataggcttt 240

gacctttgcg aagcctgcta caactccagt tcaaagctcc caggacgctt taaccagcgg 300

cacaccccta atcacagaat ggaagttgac aattcagcac tcgtgcataa gatac 355

<210> 52232

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-E11

<400> 52232

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tggagaaggc ggggcaacaa cgccatgtta tcggcggcgg cggcaagaag gcgcccgcgc 120

tggggctgca gaagcagaac tcgtggtcgc cggacatcga gcgcgacgag gcgtgggagc 180

gccggcgagc gggcatgcgc cgcgggggca cggcgctgcg ccgcgcccgc agcgtcacgg 240

acgacgacct cgacgagctc cgcggtgca tcgacctggg cttcggcttc gagccggcgc 300

acgccgnccg gtgcgcgtgc gcctgcgcct gcgccgggag gaaccgnctn ctggagaccg 360

ctgccgcgct cgacctctac tacgccgtcc acggcgggg 399

<210> 52233

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E12

<400> 52233

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gtgggaatct ccgatactag aaggttatag acaccatgaa taccctgac caagtgtcaa 120

tgttagtgtc cgccttaaat actggaatga tgtgtttaat gactgattct tatgggaatc 180

atgttgtgga ccactgcctg cagaaattgt tacctgagca caaggcattc attcttgagg 240
 ctgctgcatc atgctatctt caactagcaa gagatcgta tggttgctgt gtcctccaga 300
 aatgtattgg tcattcaagt gatgaacaga gaaacaactt ggtgtgcaag ataac 355

<210> 52234

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E3

<400> 52234

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 gatcattggt gtcgacctga accccagcag attcgaagaa gctaggaagt tcggttgac 120
 tgaatttgtg aacccaaaag accacatcaa gccagtgcag gaggtacttg ctgagatgac 180
 caacggaggg gtcgaccgca gtgtggaatg cactggcaac attaatgcta tgatccaagc 240
 tttcgaatgt gttcatgatg gctgggggtgt tgctgtgctg gtgggtgtgc cacataagga 300
 cgctgagttc aagaccacc cgatgaactt cctgaacgaa aggaccctga aggggacctt 360
 ctttggaac tataagccac gcactgatct gccaaatgtg gtggagctgt acatgaaaaa 420
 ggagctggag gtggagaagt tcatcacgca cagcg 455

<210> 52235

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E4

<400> 52235

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 aatcatgctc tgttcaaaca gtttagctgg aaccatccc aaggtcatcc atccaaataa 120
 atgtataaag gaatgaaagt gcaccatata tgataactca aaaataataa tacagtaata 180
 acaagatggg cacttctttt gttgcagaca tagataaggg aatatgatca aaacaaattg 240
 ctatggcatc atcaatgatg gaaggcctcc gaaatttgag gtttctagat tatgggtatg 300
 acatcttttg catggtatca tcttctagat cttaagactg atccaaatgt aaatgaaaga 360

aaaggattag tcggggcgga aactgacgta tgaactcaag tttaacaagat cctgctgctg 420
ctctgctgat gccactaca 439

<210> 52236
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E5

<400> 52236

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ttgatgggtgg tgaatcgctcc catttgtatc tgctccgata tgctattttt tgacctatgct 120
atggctaatac ccagtagttt gttgtgcacc atgggcataa tgagcattct gtattcacgc 180
tgtgtgctac aaacatatat ggagtaatata aaattagcag tattttcttt 230

<210> 52237
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-E7

<400> 52237

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ccccagatcc ggcaccgccc gctcctcgat ccccgaccc cacgcccga gcccgggacc 120
ggcggggtcg cgcgccgggt aggaggagga gaagaggaag ggtggatatg cgcgccgcc 180
ggcgagggcc agggccgact acgactacct tatcaagctg ctctcattg gagacagcgg 240
tgttggcaag agttgcctcc tgggtgcggt ctctgatggt tccttcacta caagctntat 300
taccacaatt ggtattgact ntaagatacg aacgatagaa ttggatggca agcgtataaa 360
gctacagatt tgggatacgg cgggccaaga acgcttncgg gactatacca ccgcgtacta 420
ccgaggagct atgggcatct ngctgggtta tgatgt 456

<210> 52238
<211> 414
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-D10

<400> 52238

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tggaacttat atacaaagta cagacacagt gctatgagga tgctaagctg atgaagctgt 120

ttcctgaaat cataagaaca ctgtatgacc aagatgtcct agctgaagat actgtcctgc 180

tttggttccg taaaggttca aaccagaagg gcaggcaatc tttcgtgaaa gctctggagc 240

cgtttgtcaa atggctcgag gaggctgagg aggaagaata agtttttgat ttggagaacg 300

gccgaatgct ggcctaagtg ttactttata tttctgaagt tagaagtttg tggaggaatt 360

attgctgctg cctcttactg ccgagaactt tatngtatga tgtagccac atgg 414

<210> 52239

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-F1

<400> 52239

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ggattcttcg tcttacggct tgaatcgagc tgggaggctg tggatctgag cacgggaggt 180

acaacaaatc cgcgtgtatg acgagttgga tcggcaccgg ttagtctctg accgcaagat 240

tttgttgttg tgttgggctg atctgccgcg ttgttttgct tcaggttcta gagctagcga 300

aatcgcaagg ctattagggc tcctttcgga gcgcgtctga agcgatgatg gctgaagtcg 360

gcggtgggat cgggatcttc tctggcctgc tccactcggg atgatgaatc tgctgcgctg 420

ataattattg gatgaatntc gataattatt aggatct 457

<210> 52240

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B5

<400> 52240

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gctatacttc ttcggacatt gtgaaggaat tcaataaaca tgacaaggag ccatcaaagt 120
acattaaaca ctggacgggc accaaaccga agactggtgc aaaatacaca tgtgacattg 180
gatatgagcg attcctaggg cctgagatct tcttcaaccc agagatatat aacaacgact 240
tcaccactcc tttgcaagtt gttattgaca agtgcaccca atcatctcca atcgacacaa 300
ggagggctct ttataagaat attgtcctgt ctggaggctc gactatgttc aaagatttcc 360
ataggagggtt acagcgggac ctaaagaaga tagtggtatgc acgggtccgt gca 413

<210> 52241

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B6

<400> 52241

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ataaaaaaat taaaaaaaaa ttcataaaaa aaaataaaaa aaaatataat tttaactaaa 120
ttaaattaac atacactaaa ttttacaaca tataaaaaata taaaaaccat ttcttttccc 180
aactttataa a 191

<210> 52242

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B7

<400> 52242

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tacgccagga ggagggcctc gccgcaggtt ggggtgggagg cggagatgag ccgggggscgg 120
tcgccggagc cgctggattt cttcatctgg actgtgcagg atgtagggtt atggttggag 180
gaaataaatc ttggaagcta ccgccaggct tttgaagaaa atggtgtcaa tggagagtat 240

ggcgcccgctg cgtgggctgc tcgatccggt agtggcagtg gctttgtgag acagtcgag 419

<210> 52245
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C1

<400> 52245

cggaccagca gcggctgatc ttcgccggca agcagctgga ggatggtcgc accttggctg 60
actacaacat ccagaaggag agcaccctcc acttgggtgct ccgcctaagg ggtggcatgc 120
aaatctttgg gaaaccattg actggcagaa ccataacttt gaaggtgaag tctcttgac 180
cattcattat ggccaaagcc agaatccaga ccag 214

<210> 52246
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-C10

<400> 52246

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ctgcaccct tgctaaaacc tctcagttca agggcatggc tggaccaaatt tctgtacctc 180
ctgctgagcc ctctcagttt gggagcatga ttagacctaa tttggtacct cccgcatctt 240
ctcagttttt ggggagcatg gttcgaccaa attctgtaac tccagaatcc tcacagtttg 300
gaagcatgac cagaccaaac tctgtacctn ctgtatcgtc acagtttggt aacatgcca 360
gtcaaaattt tgtgagcgca 380

<210> 52247
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C12

<400> 52247
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 ccgccgcacc aagatctccg cgctcgcgct gctcaagatg gttgtccacg cccgcgccgg 120
 gggcaccatc gaggtcatgg ggctcatgca gggcaagtgc gagggcgacg ccatcatcgt 180
 tatggacgca ttcgcgctcc ccgttgaggg caccgagacc aggggtcaatg cccaggccga 240
 tgcctacgag tacatggttg actactcaac catcaacaag caggctggaa ggttgagaa 300
 tgtggttggc tggatatcact cgcaccctgg ctatggatgc tggctgtcaa gaatcgacgt 360
 gtcaac 366

<210> 52248
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C2

<400> 52248
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 aaaaaaaaaa aaaaaaaaaa ggggcgcccc ttttaaagaa cccaacttta cttccccttc 180
 atttcaaaat aaaagctttt tttaaaggcc cccaaattta aattaattgc ctttttttta 240
 aaaacttcga aattggaaaa accttggttt tcccgaattt aatccctttg gaaaaaatcc 300
 cccttttcca aattggctta attacaaaaa gcccc 335

<210> 52249
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-C4

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 gtcacagagt tgcctttctt tgcattccaa gtgcggctag ggcgatgtgg cattgaggag 180

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aactactcag	gttctttgttg	tgaattgaaa	gtcgcattgct	ctgcattatt	caacggccat	300
ttcacacatg	ctttccgtcg	agttatatat	ctcagcaa	atagtttggtc	agctactttt	360
cgtctacaac	aacaggttca	tcttgcccac	tcattctgacc	caccatgatt	tggatccgnc	420
aggtngtagt	agttattagg	ctatggtcaa	cata			454

<210>	52250
<211>	462
<212>	DNA
<213>	Zea mays

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gagcgcctcg	tcatcatccg	cttcggccat	gactgggacg	agacctgcat	gcagatggat	180
gaagtgctgg	cagcagtagc	tgagaccata	aagaactttg	cggtcattcta	ccttgttgac	240
atcacagagg	tccctgattt	caacaccatg	tatgagctgt	acgacccttc	gacagtgatg	300
ttctttcttc	ggaacaagca	catcatgatt	gatctcggga	ctggaaacaa	caacaagatc	360
aactgggccc	tgaaagacaa	gcaagagttc	atcgacattg	tggagaccgt	atacaggggc	420
gcccggaaaag	gccgtagtct	ggtgattggc	tccaaggact	ac		462

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<223>      unsure at all n locations
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tgtggttcg cccgctcgag gacgtcgaga agccgcccc cgccgcgtga gccgcgcggc 180

gctgctaggc cagccacac tgctgctcgc tcataaaaag ggcggcgga gagcctggca 240
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<210> 52252
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C8

<400> 52252

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 gtcggccatg acggggaagg cgaagccgaa gaagcacacg gcgaaggaga tcgccgcgaa 120
 gatcgacgcg gcgacgacga accggggcg cggcaaggctc gggcaggcg atcggctagg 180
 gcaggacaag ggcgggcacg cgaagctggc gtgcccgtc tgccgcaccc cggcgcccga 240
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<210> 52253
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C9

<400> 52253

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 aaaaaaagaa aaaaataaaa caaaaaaaaa aaaaaagaaa agaaaaacaa acaagaatcg 180
 gctagagcaa aacaagg 197

<210> 52254
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D1

<400> 52254

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tgtaattggt aatctccatc catcagaata cttctatgcc aagcaacaag ccgactatgt 120
aatatctcag gctgacacga acaaagatgg acaattgagc atgaatgaga tgatcgagaa 180
cccctatgtc ttttacaatg ctttattcac agaagatgat tatggctttc atgacgagct 240
ccgttagttc ccaattcaac agcacaaagc tttatggaat caccactgta ggaagtcgga 300
agactttggt atgcactgct aagaccattt ccgttttctg tctgaaatca tccatcattt 360
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<210> 52255

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A1

<400> 52255

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gaggcgatgc ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc 180
accgtcaacg aggcccagtc ccgcggcggc cgtggaggcg gcggcggtgg gtacggtggt 240
ggccgtgg 248

<210> 52256

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A10

<400> 52256

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggggaggg cgtttaaaaa attccaatct tattaacact ttccagaaac ttaaaaaattt 180

aattatggcg caatatatTT taatttaaT gcccgactTT ttaaaactta aaatttgaaa 240
 aaaacttggt attaccaaT aaaatcctTT attaaaaa 278

<210> 52257
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-A11

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 cagtatgaag ctggTTTTcc actagggTTT gcattgctTT gtgctgctgg cttctttggt 180
 tatatgcttg cgatgctcca acgccggctt ttaggaatgt catcaacaac agatgatcct 240
 caagcgctn caagaccag cattgcaagt atccctccat cataccagaa gcctttaaat 300
 ccttatattc gtcatccatt catcccgaga gaagaaactg caaaacagga aaccggagag 360
 gggttcttca ccacagctgg canactcatg ggaggggcaa aatcatctgt gggTga 416

<210> 52258
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A2

<400> 52258

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 ctgaagatgt caaccggggc atcggaatgc ttgaagcttc attggacagg tctagcagcc 180
 cagaggaaac aaggggagaag ctctacttgt tagctgttgg tcgttacaga actggggatt 240
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 ccataactTT gcaaaggctc gttgaagaaa aaaccaaag agatggtatg attggcatgg 360
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<210> 52259
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A3

<400> 52259

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 tacgccacgg gtttgcttga cgatcagttc cagcagctcc agctgctcca ggaccccagc 180
 gccctgact tcgtctccga ggtcgtcagc ctcttctgtc aggacggcga gcggatcatc 240
 gaagagctgg ccaaactgct ggagaagccc aacgtggatt ttgacagggg tgacgccttt 300
 gtgcatcagc tcaaggggaag cagtgcgaat attggtgctc agaagggtta gaacacttgc 360
 attcagttcc gcgaattctg tcagcagaag agcagagatg ggtgcctcag gtactggaga 420
 caatga 426

<210> 52260
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A4

<400> 52260

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 caagtacccg tcgtacgaga tcgactggga ctccctcctc gccaattaat cgtcgcccct 180
 tgttggtggt ctggctgggt ggctcccatc ctaccacac tgccgtcgtg cagcaagagg 240
 aggggttaaag aagggttaac gccgtcgcgc agatgggatt ttagacatcc tgccgaggga 300
 ctagttggat cattagtgt aatccccgtg cgtccgttcg ttggttggtt ctgtgtaaaa 360
 gttcgtccga ttcgattggg ccttgctcact ggtgagtcag ttgtagatct c 411

<210> 52261
 <211> 384

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-A5

 <400> 52261

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 aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca tcgcaacgca 120
 acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc ctgccgncta 180
 cttgcaacag cagttgcttg catcaaacc accctgctctg gcaaacgtag ttgcaaacca 240
 gccacaacaa cagctgcaac agtttctgcc agcgctcagt caactagcca tgggtgaaccc 300
 tgccgcctac ctacaacagc aacaactgct ttcacttagc ccgctcgctg tggccaatgc 360
 acctacatac ctgcaacaac aatt 384

<210> 52262
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-A6

 <400> 52262

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 cctcagggat ggatactata ttcattggcca gtgtgcatc atcatgtttg atgtaacctc 180
 aaggcttact tacaagaatg ttcctacgtg gcataggac ctgtgcaggg tctgtgaaaa 240
 catccgcatt gtcctctgcg gtaataaggt tgatgtgaac aacaagcagg tcaaagccca 300
 gcaggttact ttccacagga cgaagaatct gcagtactat gaaatttctg acaagagcaa 360
 ctacaacttt g 371

<210> 52263
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-A9

<400> 52263

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aaaataaaaa aaaaaaaaaa aaaaaaaaaag gacagacatt ttaaaggaat ccaaatttac 120
atactaatac atacttttta tttttttttt ttttttgagt tcctaatttc atttcactgg 180
ccttggtata acaacggtat tatttgaaaa ccc 213

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<210> 52264
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B1

<400> 52264

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gcacttaact tctcagtgtt ctactatgag attctgaact cacctgatcg cgcctgcagt 180
cttgcaaagc aggccttttg cgaggccatc tcggaactgg acaccctgag cgaggagtcc 240
tacaaggaca gcactttgat catgcagctc ctctgtgata acttgaccct atggacctct 300
gacatctcgg aggaccctgc tgaagagatt agggaggcgc ccaagcgggg ctcgagttag 360
gggcagtaaa gccggcttta tgtgcctaga aactagtagc tag 403

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<210> 52265
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B11

<400> 52265

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aacaggttcg tcgccgacag attcagcaac cagagcatga aaagggtcaag agggccagtt 180
gcttacccta tgaccattgc ccgtgtttta ccagggtcgg tcaccattgt aaatcattag 240
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<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B3

<400> 52268

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tgcaagaaca ttacagatgt ggctgtctcc tcctgggtga agggacatgg aaaatctctg 120

aagaaaatca accttgaggg ttgcagcaag ataacagatg ctatcctctt caccatgtct 180

gagagctgca ccgagcttgc ggagcttaat ctttcaaact gcatgggttag tgactacggg 240

gttgccatcc tggcatctgc aaggcacctc aagctccgtg ttctctcact gtcaggctgc 300

tctaagggtta ctcagaagag cgtgctgttc ttgggcaacc ttggccagtc tatagagggc 360

ctcaatcttc agttctgtga catgattggc aaccacaaca ttgcatcgct ggagaa 416

<210> 52269

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H6

<400> 52269

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ccggtctcgc cctccctca cgccgtcgc cgcgtccggc cgccggcaacc cgacctgcgt 120

caatcgccat gactacctca aggcgtcttg ccgataggaa gatagcacga tttgagaaga 180

atatcacaaa gaggggctct gttcctgaga cagtcaagaa ggcaaatgat tatcctgttg 240

gacctattct tcttgggttc tttgtcttcg ttgttggttg atcatctctc tttcagatca 300

tcaagacagc atcaaacgct ggtttattct gaggacaatt ggtcacttac ttttagtcac 360

tctaaagtcg aggaaccagg gtgacatatg cagttgggtca cttaaaaact atacaagtgt 420

atggcgtaac tg 432

<210> 52270

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G12

<400> 52270

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tctgggaaag tgaaccctat acgcctgac atttcctaca aaacattacg atgatgccag 120
tgaacaatct tataactctac gatgatacac ttgcgtctta agttaagata acccctacta 180
ggaaaatatt aagctcttcg tcattagagc cataccatct ctttgattaa cctgaaccaa 240
acttggtgga ttcttagacc ggagagactt atcactgaaa cgtacacgtt gtctgaatag 300
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<210> 52271

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G2

<400> 52271

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ccctcaacaa cgccttcagc acctacggcg aggtcctcga gtcgaagatc atcctggatc 180
gggagacgca gaggtcccg cgccttcggct tcgtcacctt gtccacggag gacgcgatgc 240
gcagcgccat cgagggcatg aacggcaagg agctcgacgg ccgcaacatc accgttaacg 300
aggcccagtc ccgcggcggc cgtggaggcg gcgggtggcg atacggtggc gggcgccgtg 360
atggatgcgg ctacggcggg ggcggtggag gctactgcag tggtcgtgga ggcta 415

<210> 52272

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-G3

<400> 52272

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cgtcgcgtcg actcccaaga tggataagct cagtggttct gcacgtctta tgattgtttc 120
agatcttgac catacaatgg ttgatcatca tgacgaggag aacctgtcct tgcttaggtt 180

<210> 52277
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H11

<400> 52277

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cgggtccgaa gacagtttgt gcgacagtct gagcaggatg atcaaacagc gcatggttca 180
gaaagatgac acgtaatttc taatacaacg tatcatcttc ttcggcatat ctgagaatta 240
tgcggatctt cctattgcgc atcttcgtcg acagatctga caattaagtg gtccttgcca 300
ttgctgatag tagccactg attcccaacg ttagagtaca caatatataa gactctagct 360
gtcaatttct gtgattgact gcatatgac accctagcgc tatggagtca acaatgtaat 420
atcgatatac tatgttcgtg ccttggcacc ttggcggttt gcaatc 466

<210> 52278
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H12

<400> 52278

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gctaaaacgg tttgctacca atgcaggatg aggcttgctg agcaacctac acgtgtccta 120
actcagtttc tacgacagtc tgagcagtat tatcaaacat cgcattggta acaaagacta 180
cacgtaattt ctaatacaac gtattatatt acttcgccat atctgagaat tatgcggatc 240
ttcctattgc gcatcttcgt cgactgatct tacaataaaa tggttccttg catttctgat 300
agtagaccac tgattccaaa cttttgagca cacactatat aagactctag ctgtcaatta 360
ctgtaattga ctgcataaga tcaccctagc tctctggagt caacaatgta atatttatat 420
actatggt 428

<210> 52279

<211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H2

 <400> 52279

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 taatcatcag ggcactacgt cttcaacaac ttgtgctaac aaaacttgca gcctactctc 180
 agcaacagca gtttctttca ttgaaccaac tagctcgatt gaac 224

<210> 52280
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H4

 <400> 52280

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 gaagcatgct ggagcctact ggtttggaag tccaaactat ggagtattta cctgggatga 180
 caaacttcca ggagctcagg ttcttctcag cagggttgcga ctcttcctaa gtccagggtg 240
 cccttacgaa gaaatactga ggacattcca caaccaaacc gacaatgtta tgtgctcata 300
 tctgcctcta ttcaattcat tcaacttcac taaaggagga ctaatacaac tcaaccatgg 360
 aaggcctcag ccacttcagt atgctgtcaa 390

<210> 52281
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H5

 <400> 52281

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gagaggccta tcatcttttt actgtcaaat ccaacctctc attctgaatg tactgctgaa 180
gaagcatata actggactca gggtcgtgta atatttg gcc agtggcagtc catttgacct 240
tgtggagtac gatgggaagg tttttgtacc tggacagtcg aacaacgcct acattttccc 300
tggatttggc cttggtcttg ttatctctgg agccatacgt gtccacgagg acatgct 357

<210>	52282
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<213>	Zea mays

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aggacaagtg	aagatcgtgt	gctatctaag	tatatattcg	taaataatga	gacggctgtg	180
ccactgcggt	gcagccctgg	tgcgtctcag	agcttgctta	tggatgaactc	ttcgtgttag	240
gtttcttctt	tatatctgtc	gtgtctgcgg	tgtcgatgaa	ctatctagta	tgtggagcgt	300
gtgcgtctca	gcagttaccc	tgccatgcc	cgtggactgg	ctgtcgtgcc	tactgtctgt	360
taccatgtat	atatataaaa	aatgatgcgt	gg			392

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407

<210> 52284
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F1

<400> 52284

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attatctgaa actactggaa acctacagcc ggctgtagtt ggatgctttt gcttgcgctg 120
atatgtttat ggaagcatca gtgttggcga tgaatataat gacgatcatt cta 173

<210> 52285
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F10

<400> 52285

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ataagtcgac tgtgcttgac cgagcaatga tcgagcataa tctccttagt gccagtaaac 180
tttacacaaa tatcagcttt gatgagcttg ggacattact ggggattgat ccaaggaagg 240
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ttgaggctgt gatacatttt gatgatgaca cggaagagct gcagcaatgg gatcagcaga 360
ttgctggact gtgccaaagg ctgaacgaca tccttgacag catgtcaagc atgggaataa 420
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<210> 52286
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F11

<400> 52286

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 cttcaacaag gtaccatatg tccatatgat cctacttttt ttatcctttt atactagaat 180
 agtgtgccta tcgaggatgc atggtttcta tcttgctgaa aattccattt atgattcttc 240
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 agcagttggg ttatctgtat caaattacgc ctttttatgc acatgtcata tgcagtgtctg 360
 tgcatatctg aaagtttgag tataacaaat gcctgaatcc aagaatccct gttatgcaga 420
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<210> 52287

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F12

<400> 52287

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 caggaacctc atgccgtttc gccacacttt gctcagtttc tgatctttgg ctttgtgtca 180
 actgctgccc tctttccatg gcatttcact cccaaccgag tattgcatct attacacttg 240
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 accttctata tttgcaggaa cgttatccat gtcaactgga tgatgaagca catgttcatt 420
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<210> 52288

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F2

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ctaaccacac cctcccatga ctagcatagt atgttacacc cttcccatta ttaacataca 120
 tgttggaatc cattccataa gttgtccatg gcactttcct gaatccaatg gctgtagacc 180
 atgctggttt atactttgtt ttatgcaatc ttatatttcc gatttcaaat t 231

<210> 52289
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F3

<400> 52289

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 gccctgttgc cttcttgaca caacaacagt tgttgccgtt ctacctgcac gctgcgccta 180
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 acccaacaac gttctaccaa caacccatca ttggcgggtgc cctcttttag attgcctaata 300
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<210> 52290
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F4

<400> 52290

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 cagtacatca cattgtatct tgattagtga atgaagcatt tagacgatat tgttgcatgt 360
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429

<210> 52291
<211> 403
<212> DNA
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<223> Clone ID: LIB3079-001-Q1-K1-F5

<400> 52291

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cggggagccg ccgagccggg gatgaagatc cagtgcaacg cgtgcggggc cgcgaggcg 180
cggggtgctgt gctgcgcgga cgaggccgag ctctgctcg cctgcgacga ggaggtgcac 240
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gctgccgccg cagcggcgcc ggccgtgccc aagtgcgaca tctgtcagga ggcttctgga 360
tactttctct gcctagagga ccgtgcacta cttttagag act 403

<210> 52292
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F6

<400> 52292

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tcctcatcct tcccgaggtt cccacattct tccccccctt ccattgctat cattcctttc 180
cggtcctccc ctattccatc gctccttaat gctgttcccc acctacctga ctttcccccc 240
ctttgttcac accttctttc tgttccctct ttgctttccc c 281

<210> 52293
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F7

<400> 52293
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 ccccggtcgt caccatcgac ggctacgagg acgtgccggc caacgacgag tcggcgctca 180
 agaaggcggg ggcgcaccag cccgtgtccg tcgccatcga ggccagcggc tcgcacttcc 240
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<210> 52294
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-F8

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 catatgctct attgcaacag ccataccttag tgcattctgta tctccaaaga atcgcgggcac 180
 aacaactaca acaacagttg ctaccaacaa tcaatcaagt agttgcagcg aaccttgctg 240
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 tctacttgca ggcacaacag ctactaccat ttaaccaact tgtcgggagc ctttatgcct 360
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 tcttgagaca acaacatttg ttgccatttt acccac 456

<210> 52295
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-F9

<400> 52295
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 aggttgaatt gaaaaagatc cccccaacca gagctaaatc accaaagctt ggtcgggtcta 300
 aaaacaagtc catatcagag actgaagaaa atactactac ggaccaacct gcccgctctga 360
 gccttgactg aaaggtttct caaaacggtg tgaaaaaacc aaccccgctg agttcagcaa 420
 aagaagcccc agagaa 436

<210> 52300
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D3

<400> 52300

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 cctctactat ctttttttgt gaatttacct ccaccgaatt cgggcagctc accatttctt 180
 ggagtttggg gtcctttctc gagtgtttcc ttctccctc ccgggttcta ctgctgagtg 240
 gcatctttct tgtgcgactt gtcggttgac cacaggcgga gaaatttggt ctcggcacac 300
 attctctgcc acaatggacg atggagctga tcctccctgc caactgctct tctcccaccc 360
 ggagatgcct gacagcttcg acgagttctt caacagcgcc acgacga 407

<210> 52301
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D4

<400> 52301

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 tcgaccagag ccagcgcggg ggcgtcgagg ccgtccgggg cgggtccggc gctcagatct 180
 gaggcgagta gcaagcgaag aacatgcaga tgcaggctcg aggaggcgcg gccgacagcc 240
 cgggcgctgc ggctgcggcg ggcgcggagg cgccgcgccc gagccgctac gagtgcgaga 300

agcggcgggga ctggcacacg ttcgggcagt acctgcgcaa ccaccggccg tcgctggagc 360
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<210> 52302

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D5

<400> 52302

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 aggtgccggc ggagctggtg ggggcgggca gccggacgcc gtcgccaag acgaaggcgt 180
 cgcagctggt ggggcgcttc ctggccgtct ccgagccggc cgtgtccgtg cagctcggcg 240
 accacggcca cctcgctac tcccacacca accaggcgt cctccgcccc aggtcgttcg 300
 cggccaagga cgaggtgttc tgctgttcg agggggtgct ggacaacctg tgtcgtctga 360
 gccagcagca cgggctgtca agcagggtc caacgaggtg ctctcgtca tcgaggccta 420
 caagacgc 428

<210> 52303

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-D7

<400> 52303

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 cattagtga ctgcactgca cgcacgcagc ggtgatccat ccgttcgcgg aggagctggt 180
 gtacttcacc ctgttcgcca tcccgtgct caccatggtg ggacccggca ccgcctccgt 240
 ggccgtggcc aacggctacc tcgcctacat cgacttcatg aactacctcg gccactgcaa 300
 cttcgagctc gtccccaggc tgctcttcga cgtcttcctt accctcaagt acctcatgta 360
 cagccatcg ttccactcgc tgcaccacac gcagttncgc agcaactact cgctcttcatt 420

gccgttctac gaccacctg

439

<210> 52304

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E1

<400> 52304

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gtggatttct tgagtgttta gctcatgcat catacataga aagctctgta aaattttact 120

ggtcaagtga tgcctaacac tgaccggcca tttaaattga actggtcacg gtatagcatg 180

tttgaaacgc gatctgaact ggctactgat cactcgatat ttgatgccca tctagctgct 240

gatgtcactg atcaaagtct gcaggagctc ttcttgagca agtaccgatc ggtgaaagga 300

gct 303

<210> 52305

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E11

<400> 52305

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gcaagaatat tggcacttca cctagtccaa atggttctgc tgtagtcaag aagcaaattgc 120

caaaggagag caaaaaggaa gttgctactg agagaagatc accaccaaag cttcatagga 180

gttcgccaac accagcgagg acttcaccaa caaagctcag tccagcagca aagcagaatg 240

gaaactctgg tccagtttct tctgtatcta ctgttaaaaa aagagttagt gaaactatct 300

cttgggactc cctcccaaca agcctaata attcaggaaa ggctgttgctc cggaggaaga 360

acattgctct tattgtagcg gctgaggctc aaagggaagc tgctgcagct gcgtatcttg 420

taaaaggcct tgggtaagta ggcccatacc cagatatttc atatgatata gtaa 474

<210> 52306

<211> 446

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-E2

<400> 52306

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 ccgtcgccga ggccgtgcgc acggggctcg tcgcctcccg cgaggacctc ttcgtcacgt 180
 ccaaggtctg gtgcgcccgc ggcgaccggg acagggtgct cccggccctc cgccggacgc 240
 tcagcaatct ccagatggaa tacgtggacc tgtacatggt gcaactggccc gtgaccatga 300
 aggccgggag gttcacggcc cccttcacgc ccgaggactt cgagccgttc gacatgcggg 360
 ccgtgtggga ggccatggag gagtgccacc gnctgggcct ggccaaggcc atcggcgtgt 420
 gcaacttctt ctgcaagaag ctcgag 446

<210> 52307
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-E3

<400> 52307

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 agtcagcacg gagtccaggt gatggtgttt cagagaagca aaagaaagag aaagaagaaa 180
 gagaggcaat ggccgtagag ttagggaaca ttgccataga tggtgcttct tccaggatgg 240
 caaatgaccc ccaatcaagc acaataaaac aaccgctacc tcttctaaga agtgagctgc 300
 atttgatttc atgagttaag ctgtaaaact tgttttcatt cgagaattgc tccatgagtg 360
 ggaaacatat gtttttttta ggtttgagat atggtaagat agctaccgag ggaaaagaa 419

<210> 52308
 <211> 447
 <212> DNA
 <213> Zea mays

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gagattacta tatacagggt cgtgatcaaa ctttgagcag aataaagagc aatattgaac 120
tcatagtagc gacaaatggt ggaaataggg tgggtggtgat cccacactcc atgggggtcc 180
tctatTTTTct gcatttttacg aaatgggtcg aagcacctgc tcccgtgggg ggcagtgggtg 240
gtccgaactg gtgtgagaac catattaaag ctgtaatgaa tattggagga tctttcttag 300
gagttcctaa ggctgttgct gggcttttct catctgaagc caaagatgtt gccgttgcta 360
ggtataaggt aattgattca tttattttaa gcaaaagga atagcaaaag aatggaatat 420
tattggatgc tcgacaagct tggc 444

<210> 52311
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-001-Q1-K1-B4
<400> 52311

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gatggcacc cagatactgg ctactatact caggctggca gaaaaactct ggcagacaat 120
tatgagtacg tcatgcaagg gaagctttac aaaatctcag aagacacatc atccagccaa 180
aacgctaaag tggagatgta tgcattgctt ggcgggcttc ttatgctgct caggggtgac 240
ccttccactg ccgctagctt tgagcttgat cagaggctct ttctgctcat ccgcaagggtg 300
taaaactgtg gttgctgacc acttangtgt ttgccttgct cgccacttat ttaatttcca 360
tccgtgggtg aagctgttat atactggtgt aagtactggt ttctgtatcg ccatggattt 420
at 422

<210> 52312
<211> 429
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-001-Q1-K1-B6
<400> 52312

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 cttatgtgtg gcgaaggctc aggtctattc acagagttat ccgacgcaga gcttagtctt 120
 tacacaagca tccttgcgag gcacttcaat gacgactagg gaaagcttcc gcgcttcttg 180
 atacctcatt aaaaaaata ttggagtcgt tgatcttgct ttgcgtctct atcttaatca 240
 tgcttccacg ctttacttat tatttaacta gtttgtgtgt ttatttttct agtttagatc 300
 gctaggctaa gtgatatgat tgatacatag gttgtgtaac cactcctttg cggttgcggg 360
 agggatatga acacacatat aggtaagcct agtggttagt gatantgca tacctcgaag 420
 tcttgagtg 429

<210> 52313
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-B7
 <400> 52313

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 tgaccacgag agcaacatgg gcggaggaca cgacatgcac gggcagcact acggccacaa 120
 cggcggcgtg aagggtctcg tgtccaacct cgtccacggc ggcgggcgcc atggccatgg 180
 aagcggctac ggccatggcc atggaaacgg ctacggccat gggaatggcg gctacggcgg 240
 cggccacggg tacccttctc ccgccgccgt cggcgcgtac cctcattcgc acggcgcgta 300
 ccctaccccg cacggcgggc acgggtaccc ttcttcgctc acctaccccg cgactcggc 360
 gcactacggg cacacggggt cgtaccacac cagccacaac a 401

<210> 52314
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-B8
 <400> 52314

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<210> 52315
<211> 476
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-001-Q1-K1-B9

<400> 52315

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gtgagccgga tcagcccggc agctaaatta ctgatcaagg aacatggact ggatacatca 120
tactgagag catcaggccc ccgtggcacc cttctgaaag gggatgttct ggcagcattg 180
aagtcaggta tcaattcaag ttcaacaaa gaaaagaagt ctccagctca accttcgtct 240
cagccaactc gagattccca atctcaagca tcctctattt cacaaaagga tgatacatat 300
gaagatattc cgaatagtca gatacgcaag gtcattgcc aaggttgct cgaatcaaaa 360
cagacgactc cacatttgta tctatccaaa gatgttggtc tggatccctt gctcgctttc 420
aggaatgaac taanagagct acatggcatt aaagtttcaa gtaatgacat catcat 476

<210> 52316
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C10

<400> 52316

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cctcgactc aactgatat aggagagaat ttagatgaga ataaggatga cagttaacta 180
ggcaggaagg catgtatcca tgactagact gaatacctga ctgggcataa ttgcagctgt 240
tagggctagt gtgcagccta atgtgcacaa tgaagtttca ttggaacaaa gataattaga 300
atataaatcc tttgaaaaat gataatctct aggaaaaact catgtgccaa actagccctc 360
aaacatatgc tgacaaggaa tcagtccatg aatcacagga tca 403

<210> 52317

[illegible]

<400> 52317

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cctgattgag	caaaagaaaa	ataaaaaaaaa	agaacgcaca	acagaaaagca	caaaagacga	180
cacagcagaa	ccacaaccag	atgagaccga	tgataacact	tcatatggag	atcacaaagt	240
tccgaagaca	tcccattctg	aaagataata	aatctctctt	ataggcgatg	tgtcgcataa	300
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<223> Clone ID: LIB3079-001-01-K1-C2

<400> 52318

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cttctagcgt	cgtcctctct	tgtctgtgca	agcatggcgg	tagatgggca	aaccaaagag	180
gacatcaacg	caacgagtgt	gacgagcatg	aacatgacga	ggtcgtcgtc	ggcgagctac	240
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tactggtgcc	agaacattgg	ctatccgacc	atgtcggagt	gcttgaagaa	ctgcgaatcg	360
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<223> Clone ID: LIB3079-001-Q1-K1-C3

<400> 52319

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 acctattaca tggcggtccat attggagcagc ccgcccagcc aactgagatc gccactagct 180
 tcaagatctt ggctatccag gacagcagct atatctcagg gtagagtttt catcccaatg 240
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<210> 52320
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C6

<400> 52320

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 gccgagcgcc tcgttgccct cgctgcgtc gagggcatct tcttctcggg ctcttctgc 180
 gccatcttct ggctcaagaa gcgcggcctc atgcggggcc tcaactttctc taatgagctc 240
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 ggcaagctcg atgagtcctg cgtccgcgag atcggtgccg acgccgtcga catcgagcgt 360
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<210> 52321
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C7

<400> 52321

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 gtcatatccc ttccttgggt gctcctggtt gccagtcttt gggggtcgtt ttttggccgt 180

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<210>	52322
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<213>	Zea mays

<400>	52322
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<210>	52323
<211>	433
<212>	DNA
<213>	Zea mays

<400> 52323

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ggatccggcg cacttcgaga agacgagagg atcagct 457

<210> 52326
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A3

<400> 52326

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accaaggtt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacgggtgc ttgtgttatg 240
tttagatgat agtccgctca agatcatgcc ccatectatc tagtgtgtac ttgtctatct 300
cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
ggagcccctg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gct 413

<210> 52327
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A4

<400> 52327

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accgtcacct gctgatggat cgacgggtag agctaactag ctatctgctc atggctctcc 360
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tatatatata tatatata 438

<210> 52328
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A5

<400> 52328

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acccaaggtt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
tttagatgat agtccgctca agatcatgcc ccacccctac tagtgtgtac ttgtctatct 300
cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
ggagcccctg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gct 413

<210> 52329
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A7

<400> 52329

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acccaaggtt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
tttagatgat agtccgctca agatcatgcc ccacccctac tagtgtgtac ttgtctatct 300
cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
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<210> 52330
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A8

<400> 52330

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 cagattgtag gagatgatct tctcgttacc aacccaccca gggtcgcca ggccatcaat 180
 gagaagacct gcaatgctct cctcttgaag gtgaacaaa tcgggtctgt gaccgagagt 240
 atcgaagctg tcaggatgtc caagcgcgcc ggatggggag tgatggcaag ccacaggagt 300
 ggcgagacag aggacacctt cattgctgac ctctcagttg gcctgtctac gggccaaatc 360
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<210> 52331

<211> 474

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-A9

<400> 52331

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 gccagccagt ggttctctcg ctcggaggaa caggcgaaca gcaagagctt ctgaagatga 120
 aggcgatccc cgtggctctc ctgctctctg tcttggttgc tgccgcctcc tcgttcaagc 180
 atctcgccga ggcagcagac ggcggcgcgg tgccggacgg cgtgtgcgac ggcaagtgcc 240
 gcagccggtg ctgctgaag aaggccgggc ggtgcatggg cctgtgcatg atgtgctgcg 300
 gcaagtgcc gggctgctg ccgtcggggc cgtacgccag caaggacgag tgccccctgct 360
 acagggacat gaagtccccc aagaaccagc gcccgaagtg cccctaggcc ctaccgctct 420
 aagggagggg ggatgaccca ngatttcgct cgcgatcctg cacagcttct agtc 474

<210> 52332

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-B1

<400> 52332

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tctggaggca aatccggagt acaaagaccg catatctgct tcggatttca gctttgcgcc 120
acccaagggt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
tttagatgat agtccgctca agatcatgcc ccacacctatc tagtgtgtac ttgtctatct 300
cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
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<210> 52333
<211> 461
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<213> Zea mays
<223> unsure at all n locations
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<400> 52333

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tgagaacatg gccctcatatc agaaaatctt gaaagatgag aaggaaactgg cgactcggca 120
gcaggagggtg cttgatggaa actgcaagaa gtacgacatg ctggaagctc tagtgcagaa 180
gggagacatc actaaccttg ctcaacaata cggagtgaac ttgaacgact gatgagtcac 240
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taggatagca tgccatagtt ttggtccggt atctggaccc tccctctggt gtaaagacta 360
tcccaactta ggcttgggct tttcagcctt ctttggctct ccaaaaaatc taaattagct 420
ggctctgagc ctctgactnt ctgatcgatc caagctagct g 461

<210> 52334
<211> 474
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-001-Q1-K1-B11
<400> 52334

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 gtggcatgca gatcttcgtg aagacactta ctggcaagac gatcaccctt gaggtggagt 120
 cctcggacac catcgacaat gtcaaggcca agatccagga caaggagggc attccaccgg 180
 accagcagcg gctcatcttt gctggcaagc agctggagga tggccgtacc cttgcagatt 240
 acaacatcca gaaggagagc accctccact tgggtgctgcc tctcaggggt ggcattgcaga 300
 tcttcgtgaa gactcttact ggcaagacga tcacccttga ggtggagtcc tcagacacca 360
 ttgacaacgt caaggccaag atccaggaca aggagggcat tccaccggac cagcagcggc 420
 tgatcttcgc cggcaagcag ctggaggatg gtcgcacctt ggctgactac aaca 474

<210> 52335
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-B12
 <400> 52335

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 tgatcgacgt cctgctaggc aacggcaacg acgagctcac cgacgagctg atatctgaca 120
 acatgatcga cttcatgac cctgcagagg actccgtgcc cgtgctcatc acgctggccg 180
 tcaagtacct cagcgaatgc ccacaggctc tgcagcaact cgaggaggag aacatggagc 240
 tcaagaggca gaaatcaggc gcgggagaaa ccctagaatg gacagactac atgtcgctcg 300
 ctttcacaca gcacgtgac acggagacgc tgcggatggg caacatcatc aacgggatca 360
 tgcggaaggc ggtgcgagac gtggaggtga gaggccacct ggtcccgaag ggctggcgcg 420
 tcctcgtcta 430

<210> 52336
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-A1
 <400> 52336

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 acccaagggtt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
 gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
 tttagatgat agtccgctca agatcatgcc ccacccctatc tagtgtgtac ttgtctatct 300
 cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
 ggagcccctg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gct 413

<210> 52337
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C11

<400> 52337

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 acttctttgt tacttttatac gaggtcttgc gtgacaggcc tgctggtcat gattgggagc 180
 ttgaacctgg agtcacatgt ggtgactatt tgtttgggat gttgcaggga acacgttctg 240
 ctctttatgc aaatgaccgt gaatctatct ctgttactgt gcaagaggta actcctagag 300
 ctgttggagc actggttgca ctttatgaac gtgctgtggg gctttatgct tctttggtaa 360
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<210> 52338
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G2

<400> 52338

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 ggagctcgag cgcgcgtcc acctgcgccg acgcgatgcg ggccaagtgg aagaagaaga 120
 ggatgcggag gctcaagagg aagcgccgga aaatgaggca gagatctaag taggcgcatc 180
 ttgtgaccga ggatggcgag cttctcctgc accatggctg tgacgcgttg ggatgattgt 240

ctccctttgt agacgtgctt tgctgtagac gtaggcgatg taaaccgtcc tttttgatta 300
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 taagtttatt gatattcctg tcaactcgaat atgtttagatg tcctttcttc agcgttggtc 420

<210> 52339
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G3

<400> 52339

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 ggtcatcgac attcgtcaca aagccatttg gaccgcggca cgttgctctc gcgctcgtgt 120
 agcccacttt gatgtcgtct tcctttggcc gcatccgaca tctcgccagt tgcccctcat 180
 ctccctaccg agcgtgctg tccatccttg tgcaacaaaa atcaccgctg gctacattgt 240
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<210> 52340
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-G4

<400> 52340

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 gacttcatgc tttcttcgta cgctccagtc atctctgctg agaaggccta ccacgagcag 120
 ctctctgtgg ctgagatcac caacagtgcc ttcgagccat cttccatgat ggccaagtgc 180
 gaccacgccc atggcaagta catggcctgc tgcctcatgt accgtgggtga tgtgggtccc 240
 aaggatgtga atgctgctgt ggccaccatc aagaccaaac gcaccatcca gttcgtggat 300
 tgggtgcccga ctggcttcaa gtgcggcatc aactaccagc ctntagcgt tgtgcctggt 360
 ggcgacctgg ccaaggtgca gcgtgccgtg tgcattgat 399

<210> 52341
 <211> 84

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G5

<400> 52341

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tgcacatcta ctctcgcttc taat 84

<210> 52342
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-G6

<400> 52342

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gtacagaatg aaaaggacca cattgagggc tttgcacctg angtagcttg ggttactaaa 120

tctgggaaat ctgacctgga agcaccgatt gcaatccgac ccacaagtga gactgtcatg 180

tatccatact tctncaaagt gataagaagc caccgagact tacccttgaa ggtgtaatca 240

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atntctgtgg caagaggggc atactgcttt tgcgactaaa gaag 344

<210> 52343
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H1

<400> 52343

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gtatcaccat atcgtactgt catttcaata tgcaaacctt taccaagacc ctacacctat 120

atactatcac actccatgta taacttctga caccattaac actgtcatat ctaagaatcc 180

ctactatcat gacatacatc ctgaataccc acatcttcta ttttaccact 230

<210> 52344

<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H2

<400> 52344

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gccatttcta aaaggggaatt tattactcta ttacaattac aaatgcgagg agcatatctg 120
gttgggaaat agactgatga tgactgcaac tgcagggacc aggagcatgg actgcacatc 180
aaagatgtca tagatcgtct caaactacca gatgatgtag tcagtgcggc catccaaggt 240
catgttgatg tgggcaacat ttacaacaca attgatgact tccactacaa atctgtccgg 300
aatggatgac cacgttgcaa gtccagcgtt caagctccgt gtaagtatgg agcccgttca 360
aggaagaaga aaatgtaacc ctcttttagga tcgcctatat tttgcagata ggcttcatgg 420
tcaacagctt 430

<210> 52345
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H3

<400> 52345

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ggccttgctt cttatggctc gattgacttc ttgcgcccat ttctggaaac aagccattcc 120
cggagaacag ggaaccactt gaacccaag tgggggtttcc ccggcccttt tcgggggttcc 180
cgctt 185

<210> 52346
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H6

<400> 52346

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<210> 52349
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D10

<400> 52349

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tgtcaaaagc aggtatgggt accttgatcc ctaattcttc cgcattgcagg agctttcagt 120
gaaatccgat gtctactcat 140

<210> 52350
<211> 170
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D12

<400> 52350

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gatgaactca acgagaacag aaatctcgtg tgggacaaat aggtaaatgc tcgtgtgatt 120
ctgatttcca ggtcgaatac gagccgtgaa atcgtggact atcgttcctt 170

<210> 52351
<211> 240
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-059-Q1-K1-D2

<400> 52351

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gggcactaac gggcacaccc tcaccgtcaa ggtcgtcagc gccacccccg tgccggggccg 120
cgcgcgcccc ggcgcacccg acgtcgcttc gtcccgcgcg ccgcgcatcg ncgagtgcct 180
cgtccgagac gagaccggcg tcacgtgatt caccgaccgc aacgacccaa gtgatttgct 240

<210> 52352
<211> 169
<212> DNA

<400> 52355
 cccacgcgtc cgaaaaaaaa taaataaaac taaaaaaaca aaacaaaata aaaaggagag 60
 ggcgacacct actacgggac c 81

<210> 52356
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-E4

<400> 52356
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 gggactggaa tggcgctggt gcacacacca actacagcac caagtcgatg aggagcgacg 120
 gcgggtacga ggtgatcaag aaggcgatcg gcaagctggg cctccggcac cgggagcaca 180
 tcgccgcgta cggggacggc aacgagcgcc gtctcaccgg ccgncacgag accgtcgaca 240
 tcaacacctt cgtctggggc gtcgcgaacc gcggggcgtc agtgcggggtg ggccgcgaca 300
 ccgagaagga atgcaaaagc tacttcgagg accggaagcc ggcgtncaac atggacccgt 360
 acgtggtgac ctcgctgatc gcggagacaa ccatgctgtg ggagcccagc cac 413

<210> 52357
 <211> 251
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-E5

<400> 52357
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 gccacagctg ccacccgatg aggcggcacg tgtggaggcc gaggttcgga gctacttcga 120
 cagcgtcncg ccaaggcgcc cggccaagcc gccgtgcatc gaccgcgcgg tggacacctt 180
 cgcggaaccc gccgccgtca acgccgggga ccacaacttg ccggagctcc gcaagctgcg 240
 cgacctctag g 251

<210> 52358

<211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-E6

<400> 52358

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 agaatttgcg aggtccagaa agtgaccctt gaggtgattg ctgagtacac cgttcgtacc 120
 cttcagagga ccgtgcctgc tgctgtgcct gctgttgtct tcctctctgg tggacacagc 180
 gaggatgagg ccacccgcaa cctcaatgcc atgaaca 217

<210> 52359
 <211> 87
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-E8

<400> 52359

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<210> 52360
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-E9

<400> 52360

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 aagcatttag ccccaaac atcaacagt gtcgtggcgc tgaattcgaa ggggctgtca 120
 ttgcactgat ccatctgtcg attacgagaa ccgataaagt ccgtgctctt cgagaggctt 180
 tctaccgcca gaaccttcca aatgtgacca atttgcttgc cactgtcttg gtattcctca 240
 tagttatcta tttccaatgc ttccgagttg agcttccagt gagatcaaag aatgctcgtg 300
 gccagcaagg ctcatatcca attaagctgt tctacacttc aaacatgccc atcatccttc 360
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<210> 52361
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F4

<400> 52361

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ggtagcatga gaagatcccc ttctgcactc atcgaacggc cgtcgtcacc tagatcaatt 120
gggaggggta agtggct 137

<210> 52362
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F6

<400> 52362

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gggatgggaa taatggccgg tctctccacc aagcttttcg tggctcctct cctgctcgtt 120
tgttacaccg gaacgcaagg cggtcgggtg actatggtgt 160

<210> 52363
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B1

<400> 52363

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aactagagtg gggaaactca gatcatttaa gcggtattat tgaaaaacat cctggtggat 180
ttgatcttgt tcttgagct gatatttgct tccagcaatc tagcatttcc tgcctctttg 240
atactgtaga gaggattggt cgtattcaag ctggtaaag cagattcata ttggcttatg 300
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<400> 52366

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ggcgattata tattatagat ctaatctggc tataatttac gtataaatcc ataaccaact 180
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<210> 52367

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B2

<400> 52367

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tgtgctagag cctggatgcg actaggtgcc ataacgcata gggaaacaac tggacgggta 180
tataaactg cgtgtacaac aacttgatgt ccgctgcgaa acaaagacaa aggataatgg 240
cttcgtaaat gatgtggcat ctgtgcaata tcgtgccctt gccgataagg catctgatgc 300
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<210> 52368

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B3

<400> 52368

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gaaggcagcg ggagccctgg cgctggcgct cgagctcgcg ctagcagggg ccaactccga 180
tggcgacgcg ctctcggcgc tgcgccgcaa cctcaaggac cccggcgcg tgctgcagag 240
ctgggacccc acgctcgtea acccctgcac ctggttccac gtcacctgcy accgcgacaa 300
ccgcgtcacc cggctagatc ttggtatttg aacttatctg gtcattctgt gcctgagctt 360

gggaaattgg agcctctgca gtaccctgga cttta

395

<210> 52369

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B5

<400> 52369

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gtgctgatcg atcgagggcc ccttgttcta gccagttgtc cccttccctc tcgccggcgt 120

tgctcctgcc tgctccaatg gccgccgcct tcacgaagac ggcgaacatc cccgcgacga 180

tgcgggccgt gcagtacgac tcttgccgcg ggggcgccgc tggactcaag catgtggaag 240

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<210> 52370

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C1

<400> 52370

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aaggggcaaa acatacctgc agactatcaa taaaaggct tgaagagtgg aggctgatgc 120

aaaggacat ggatgagtgg atgagacacc atcaactccc atctcatctt caagaacgtg 180

tgccgcggtt cgttcaagtc aaatggcttg ctacaagagg agtagaagaa gaatccatct 240

tgcaagcttt gctgctgat attcgtcagg 270

<210> 52371

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C10

<400> 52371

52369-52371

gcaacacctg cagcaagtga ccgtggcacg ggcagttgca gcagcagcag ctgctggggg 60
gaacttggat ctgaacccat tcttagagta tggataccaa atgcttcttc actggcggcc 120
ccttcgcaac gctagacatg aattgcttgc ttcccggcag ctt 163

<210> 52372
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C11

<400> 52372

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aaaaaaaaaa aaaaaaaaaa aaaagaaaaa attaaaaaaaa taaaaaataa aaataaaaaa 120
aaaaaaaaaa aaaaaaataa aaaaaaaaat caaaataaaa aaaaaacaaa aaaagacctc 180
ccatttttaa aaatccatat tattttcccc ttccttccaa cacttaaccc ttcatttaat 240
ctcccctaatt ttaatttact ttccttattt t 271

<210> 52373
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C12

<400> 52373

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cgcccggtta gagcagggaa ggaaccgtgg gagggatacg gtcggacatg atgcacgcca 180
agtcggagtc ggacgtgacg atgcctggc 209

<210> 52374
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C2

<400> 52374

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 gtgccagcct gtggttcatg tcacttttta tctgcatttt tggttccaag catcctagaa 180
 atgagatgga gtggtgttgg aattgatgac t 211

<210> 52375
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C4

<400> 52375

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 ctaatcatac tttctct 137

<210> 52376
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C5

<400> 52376

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 ggtgatgtaa cgggaggaga tgtagggaga gagagaaacc accagaggcg agcgagcagg 120
 tgtgggcgtg gcgtggggga ggcgccgagg cggtcggggc cgtagataag agtcgtctca 180
 cctcgtcgtc gcagactcgc atcgcacgag aggagaacga gaggggaagg gctatagaga 240
 gaaacaaagg tggtcgtaga tgtgagccac cctctttgta tccctcgtca acttcttcta 300
 ccaacttctt tttccttcc 319

<210> 52377
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C6

<400> 52377

tgcatttgcg atagcaattg gtgctatcag tctcatactc tttgctcagt' tgattggcag 60

agtgcggaca tacctgcagt ctatcagtaa aaggcttgaa gagtggaggc tgaggcaaag 120

ggacatggat gagtggatga gacaccatca actcccatct catcttcaag aacgtgtgcg 180

gcggttcggt caagtcaaat ggcttgctac aagaggagta gaagaagaat tcattttggc 240

aagctttgcc tgetgaaatt cgtcgggatg tgcagcgtca tctttgtttg gacctcgta 300

gacgtgtacc ttttttctct g 321

<210> 52378

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F10

<400> 52378

acgcgtccgc gctgatnntt tctttgaaaa acctgtgttt attgtttcct taaccccaag 60

aaatgggtgt actcctaaaa tcataaattg cctctccaaa caaaaattag ggcaaggggt 120

taaaattggt attggaagtt aaacctttta aaattcttta cttggcttcc ttaccatttt 180

cctgggtttt atgacaaaaa ttccaatttt tcccaaattg gg 222

<210> 52379

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F3

<400> 52379

cgtgtccgga cggaataacc nccacaaggt gcttaagcag atgaactcga gctgcancct 60

cagcgggagg tagactgtaa ccacaagaag tttgccatga aattcggttt ggtcgcagca 120

gtttaggtac tcaacttttc tctagtccaa tccaaggag tttgttttat tctcaggtga 180

atctttccgt ttgtaccgtc aggttgtgtt gttcttttga acatttgggc aatgataact 240

aataattcaa ggtcctttac aagtna 266

<210> 52380
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-F6

 <400> 52380

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 attgctttca tatttcaggc ggcgtcntca gacacctgga ctttttctat tgctttgggt 120
 gtcacaaaaa atgccaagtg tcatttaagg tcttgtgaaa agggggagaa ctattgattc 180
 catttattha acttacgggg ttgagcttac tgtacaggtt 220

<210> 52381
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-F7

 <400> 52381

 ggacaggatc ctcaccacca acctgtgggc ttctgagctc tccaacctct cttccggcgc 60
 ggtcctggct caaaagatgt gctctttnaa ccccatcttc cccctctggg aagccaccgg 120
 cgcgaaatgtg actgaggtgg cttacgccgt gggcaaggac actaggattg gcccgaagtt 180
 cctgaacgcc agtggtgggt tcggtgggtc ttgcttccaa aaggacattc tgaacctggt 240
 gtacatctgc gagtgcaatg gcctgcccga ggtggccaac tactggaagc aagtgatcaa 300
 gatcaacgac taccagaaga gccggttcgt gaaccgcgtc gtgtcctcca tgttcaacac 360

<210> 52382
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-G4

 <400> 52382

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ggcttactgg gaacttggtta taaaagatat ccaaaaatcc tgccaacttt ttaggccat 120
ctaccattaa acttattggg cttattggta ttttttcta aaaggtctt cttaggtggc 180
caaagacact taaaggactt gttaaaccgg aaaatgggta cacaaaatgg tcaaaccccc 240
caaaggctac ataaaaaacc caacttctg aaaaaggggt tctttcattc aagaaagtat 300
tcgttattgc cttaaccgtc aacgcaacc taattttttc aattgcaaaa aataag 356

<210> 52383
<211> 250
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-G7

<400> 52383

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gctgggggtcc tggtcgctgt accgcgccgt gatcgccgag ttcacgcga cgctgctgtt 120
cctgtacatc acggggggcca ccgtgatcgg gtacaagcac cagactgacg cgtcggcgtc 180
gggcgccgac gcggcgctgcg gcagcgctggg cgtgctgggc atcgccctggg cttttcgcg 240
catgatcttc 250

<210> 52384
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-H1

<400> 52384

cgcgtccgga ccaatatact atcttcttct agctctatct aggctcgtct gctgcaagaa 60
ngtaacaggg cgggcttgga tgttaattat gaggacctcc ccctnngcgc caacaagttc 120
tcggagcgcc agcccatcgg cacggcgggc cagggcacgg acgacaagga ctacaaggag 180
ccccgcggc gcgcgctctt cgagcccggn gagctcaagt cctggtcctt ctaccgcgcc 240
ggcatcgccg agttc 255

<210> 52385

<211> 159
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-H10

<400> 52385

ctgcgccctg gcagcgtctg ccgacgcgac acacttcaag gtgggcgggc acagtgggtg 60
 gagcgtgcct ggcgccggct tctagcccta caacacctgg gcggggcgac tccggtttca 120
 gatcggcgac cagctgctgt ttgtgtaccc caaggagac 159

<210> 52386
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-H11

<400> 52386

actggagggg tgaaagggt cttaggggga cttttttccc aggagcactg gacctgctaa 60
 ggctgttggc aaagagcttc ctgtccttaa cggaaagttg actggaatgt ttttccgggt 120
 cccaaccgtc aatgtttctg ttgttgattt aactgttacg cttgaaaagt cagcaacctc 180
 tgatgagatc 190

<210> 52387
 <211> 245
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-H9

<400> 52387

aggaggccgg aggtcfaatg gcggatgaaa atcaggctgg aaagaaagag gaggaggaat 60
 ttagcacagg ccctctgtca gtcctaata tgagtgttaa gaacaacacc caggtcctca 120
 tcaattgccg caacaacaag aagctgcttg gccgtgttcg tgcttttgat cgccactgta 180
 acatgggtgct cgagaacgtg cgtgagatgt ggacagagat cccaagact ggcaagggca 240
 aaaag 245

<210> 52388

<211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A1

 <400> 52388

 aattcccacc tacacctacg cttccgctac atcgcataca attgattaac tgcgttccac 60
 acttaaaaac actaatacta ggatagggcc taataaacca tcacaaatta ccatcaacac 120
 taaacactca aaatctagct aactatgcca tcatctgcca ggaaaaataa actaatgcca 180
 attgtttaac ctgacatcct tgttgatggc cctcatgaca ttgaatcggt cgcttacgtc 240
 actgacaccg tccatgctgt ctgctacaat gcgctcaacg agcaccat 288

<210> 52389
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A10

 <400> 52389

 ggcacatca acacatacac acaccaatgt tcacatgctc ttgccattta ttcggagggg 60
 gcaattatcc gatgaatggc aatcttctct taatacctcg cgggacttgc atggc 115

<210> 52390
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A12

 <400> 52390

 ggagatcggt cggcgtcaca gacttcgtca atccatcgca gctgggtcaag cgttcggggg 60
 gagaggtgat cgctgagatg accggcggcg gcgtggacta cagcttcgag tgcacggcg 120
 tgccgtcggt gatgaccgac gccttcagat gcaccaagat ggggatgggc aagacgatcg 180
 tgctggggct ggtgagggac agcgacgatg tgtgctgcc gtcgctggag ctgctgttcg 240
 ggaggtgcgt catgg 255

<210> 52391

<211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A3

 <400> 52391

 aaaaaaaatc aaaaaacaaa caatctaaaa tatacaaact aacaaacaca aaacatgcaa 60
 cagcataaac taaaatataa aatcacctaa acaaaaataa actatccaaa attatacaac 120
 cataaatact ataa 134

<210> 52392
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B10

 <400> 52392

 cccacgcgtc cgataatgca gtaagacgac acacattatc atgtgtggta tgaccaataa 60
 tagatccatg gtcataataa agttttgggtt ttc 93

<210> 52393
 <211> 112
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B4

 <400> 52393

 cccacgcgtc cgcaagcagg tcttagacgc agcaagcgtt cttctcgtcc tcgtattaac 60
 gggcgccaat atgatttttc ggactccgat accgagcctc gaaaggcagg aa 112

<210> 52394
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-B8

 <400> 52394

 tcccggaccg acccatccgt tgaaacctaa attcttaatg ggtccaccta ataattaaaa 60

tatatatcta aaacctaaag aatgttttta aataaaaaat gtctggaaac tttnttaaaa 120
 aaacctacc aaaaaaaaaa tcaaaaaaaaaa attaaaaaat tccttagaag taaatcccct 180
 aaaaaacttt ataaaaatta tccataatac acccctc 217

<210> 52395
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-B9

<400> 52395

ttttttttta aataagggcc ctaaaaattc cggttggtgt tttataaaac attatgttac 60
 cccacttgta tgctgcatcc cacaatggat tttatgatgt ggaccccgaa tgttttgctt 120
 atacaatggt tgctatgctt cccc 144

<210> 52396
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-C1

<400> 52396

cccaacacac caacctcacc ttcccttact taccatccct actttctctt ctctct 56

<210> 52397
 <211> 284
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-C2

<400> 52397

taccatacat aatttacatc cattttcctt antaataaat tatggatcgc ntcttttaaa 60
 ctatcggcgc accctcacct aattctattn aaaacttttn atttaccac aaaaaagaaa 120
 aaaccaacat gtaatcctca cctactggtc taccttatct accgtccact taattataac 180
 caattttttt tatttttttaa aaaaaaaaaa aaaaacnnct gcctgttttc ccaaaaaacc 240

caaaaaaaaaaaa aaaagttcgg accnttttng gggccaagc ttac

284

<210> 52398
<211> 139
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C3

<400> 52398

gaattccgac tgcaccgcag tcataaaaaa aaaaaaannn taaaaaaaaa aaatttttta 60
tttattaaaa aaaaaaaaaa aaccgcggaa gaaattttaa aaaaaattgg cccccccccc 120
caacaacttt aattctaaa 139

<210> 52399
<211> 273
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C4

<400> 52399

cccactcgtc cnttaaaaaa aaaaaaatgt tttcataact ttaacaaaac aaacacagga 60
agccatattt aaaaaaatag gggccccccc tcttaaaatt tcaatcctac cttccccttc 120
catccacacg aaaccnctt gncctagtag ctttctatat atatattttt ttccccnnn 180
nnccaacggn ngaangggaa aaaccgggg gaacccaaaa taaaaaccct ccaaccaaat 240
ccccctttgc ccacttgcca aaaaaccaa aag 273

<210> 52400
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C8

<400> 52400

catcttaatc cgctaccata cataatatac atcccagttc cttaataata aaatatgtta 60
ggtttaacca aaactttctc ccaccctata taaatctttt caaaactttt taaaaaccaa 120

aaaaaaaaa aaaaccccc tttaatcctt aaataccggt ctaacggaat tacccgggac 180
 ctaaataaaa attttttttt ttttttnaaa aaaaaagaaa aaaaaaaaaa nggggggaa 238

<210> 52401
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-D6

<400> 52401

gagaaaggct gcttccatat ggacgaggat tatctaggat ccttccaagc catcgagcgg 60
 taccatgtac tagagctaaa tcgtcccnac acctacagtt ccacctacct agacctacac 120
 aaggactaac gcaagatgta ccttatgaag aagatcccc tttgcaagca caacgacaag 180
 ttccatacga cctcttacca tgagatgtcc ctgatggcaa acctcagcaa cccgtacatc 240
 gtcaaataca aagacggatg ggtataccag gggaccatca tctgcatcgt cacaagctac 300
 tgctaaggag gggaca 316

<210> 52402
 <211> 206
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-D7

<400> 52402

atcctaacaa cttcaaccct gtttagaggc tctatcactt taacatanca accatatgta 60
 gacaaattta aaccactgat tacctcctca taaaaattta aatccaacag ggaacataaa 120
 cctgataggg gctttcaaaa aactttttac taacttgaaa atatataac cttaaagtct 180
 tcggcaattt tttaaaccc catggg 206

<210> 52403
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E11

<400> 52403
 ccttccggaa tcaggaccaa cacaagccgg caggtcacct ttgcaagcg ccgcaatggg 60
 ctctcggga gggcgtaaa cctttccgtc ctctgcaaca ccaaggtggc cctcgtcgtt 120
 ttctccagcc gcggacgct ctacgagtac gccacaaca gtgtgaaggc tacgatcgag 180
 aggtacaaga aggcacacgc ccgtggctct tcctctggcc cccactctt agagcacaat 240
 gc 242

<210> 52404
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E5

<400> 52404
 ctccctcgca aacagccgag tgaagagcaa gcgtgggagg tgggatgcag tgaaaggcga 60
 ggtcgctaac ctcaacatca gccagtgcac cgccctgaca cccccggc 108

<210> 52405
 <211> 169
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-E7

<400> 52405
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 ccaaataaa gtttggcggg gacgccgcc cgcgaactgc tcatgcgaag gataagctga 120
 tgcanaagca ggagaaactg gagagaatta accaacaac cgcgagct 169

<210> 52406
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G8

<400> 52406

52403 52404 52405 52406

cactcttcat ataatttcac attggaattg tggcttacag tccaaatggc cgtggatttt 60
 ttggtggaag aggagtgata cacgctagta tcttctgaat ctagtctgca caggcattca 120
 agatttacag cagaaagctt ggaaaagaac aagcagatgt tacctgaaaa tagaagaggt 180
 ggggaggaag taccagtgc acccagctca actagctcta gcctgggtgc tgcgacaagg 240
 gg 242

<210> 52407
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-G9

<400> 52407

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 tctcactcag tncagtttaa caccaccttt cacatccctt tccccatctc ctactcatac 120
 atcaatccct atatcctccc attctacaca taactaacca cttcaattat gtctaacatc 180
 ccactagtcc gttaactcta tattaccaga atacttatcc tcttccccct cctctaattc 240
 attctcctat acccatccct attcacaaca aacaccctcc atatgaacca ccttatttac 300
 ctcataacaa acccttccac gcttcaatac cactccatca taacctact 349

<210> 52408
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-H10

<400> 52408

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 gaagttcagg aacgtctgga ggacgatgaa cgttattccc gacttgagaa gtttgatcgg 120
 ttggatattt ttcaagagta cattcgacac ctagagaaag aagaggaaga gcagaagcgg 180
 gtacaaaagg atcaagtgag aagacaagag aggaaaaacc gtgatgggtt tcgtaaaatg 240
 ctggaagaac atgttgctga tggcacactt aatgcaagaa cttcgtggcg tgattactgt 300

gcgctagaca tgctaagagg caggcttgat cagtgcgatg tatgaccgaa tggaggcttg 120
 agggattgaa ccatcaataa caagcaacgt gcttcttctc attacttata ttgtgcacgc 180
 tgttttacgt tcaagagatc aatcaaagcc tctagaactg agaggatgaag atatccaagg 240
 tcggaaggct ggaaagctct ggattggaga tctaactgcc tcgtgtgcaa gtggtatcaa 300
 acacatgata gacttacaac atgagggaga ggagataga 339

<210> 52412
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H4

<400> 52412

cgaccgacgc gtccggaaag tcacaaaagt ctcacctcct cggagaaagg cttatagaga 60
 agacaaatct gataggcaga gcaactatat gaaaaaggat aatggctcctg agacaagtcg 120
 ggattgggtat aagatgcagc aggcaaagca gctgcaacag caacaaagac cagcatctgc 180
 ttcagcctca tcaaggcaat ctgaaaagga aagttcttgt gatgatgtag aaattgatgc 240
 aattcttgag gaagaggagg ccttcattgc agttcacagg aaggagatcg agaatactat 300
 ggagattgtg cgggaagaga tgaacctttt ggcagagggt gatc 344

<210> 52413
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H6

<400> 52413

gaaagtcaca aaagtctcac ctctgggca tagggctctt ccccgacatc gaccttgacg 60
 ccctgctcgc cttcttctcc ggggaccccg ccgtcgtata cggcctcatc atcccgctcc 120
 cgactacgcc ggcgcggcg accgcgcacg atgcggaggc ggtgtcgccg gagtctgtga 180
 ccttccggac gaaccgctc ggggaggttg cgctctcgga gatcgagagg ctgctgatgc 240
 aagacgctga ggccgaactg cacgaagagg accatgggaa caacggagac c 291

<210> 52414
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H8

<400> 52414

cgttcccatg gacatcgatc ttttccccga catcgacctt gacggcctgc tcgcctcctt 60
ctccggcgac cccgccgccg tctccggcct catcatcccc tccacgcctc cgccaacgcc 120
gtcgcacggcg cacgatgcgc aggcagtgtc gccggattct gtgacctccc ggacgaaccc 180
actcgatgag gtggcgctct cagagatcga gaggctcctg a 221

<210> 52415
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H9

<400> 52415

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gtacggtgct gatctccttg atttgttcaa tgagggtgag ttcaagacag cttcagggtca 120
gctgctggac cttatcacta cccatgaggg agaaaaagat ctaacaaagt ataacataac 180
agttcacggt cgaattgttc aatacaagac agcctattat tcattttatc tgccggttgc 240
atgtgccctg ctgctctctg gcgagaattt ggacaattat ggtgatgtag agaacatcct 300
tggtgaaatg ggaacatact ttcaagtcca ggatgactat ctggattgtt atggtgatcc 360
tgaatttata ggcaagattg gaacggacat tgaagattac aagtgctcat 410

<210> 52416
<211> 217
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-A10

<400> 52416

aaaaaaaaa ttttttttaa atatnganan nnaaaaaaaaaa ggggggggaat tttttaaaaa 60

gaacgccacc ccccccccn ccnctacaac aaaccaaaaa aaatatatta aatttctttc 120
 tccaatgggg ggcccccggt taaaaaaaaa aaaatttttt ttccccgtcca tccaaacgaa 180
 aatccttttc ttttcgcccc cccaaaataa attaacg 217

<210> 52417
 <211> 254
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-A2

<400> 52417

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 ctcggtccgaa tccacaactt ccatccatgg cagtgtcatc agggatgggtc ttctccgtcc 120
 gcccgccggc tccggccccg ccctgcgctt gctctgccac ggcgagggcg cgccccgtcg 180
 gcgactgccc caagtgggtg ccgccgctgc tgggggtggtc cggccagccg gactacatcg 240
 acgcgcggcc ggcg 254

<210> 52418
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G4

<400> 52418

gaagggcagg gacatcggtt tgtcagaggc cagcctagac acaatccgcc gtgcgcacgg 60
 ggtgcgttcc atcaccgccg tgcagatgga gtgggtcgctc tgggtcccgag acatcgagcc 120
 cgagatcggt ccactctgca gagaattggg gattggaatt gtggcttaca gtccaattgg 180
 ccgtggatth tttggtggaa gaggagtgat acagcaagtt tcttctgaat ctagtctgca 240
 aaggcatcca agatttataa cagaaagctt ggagaagaac aagcagatth acctgaaaat 300
 agaagatttg gcgaagaagt accagtgcag cccagctcag ctagctctag cctgggttct 360
 gcgtaagggt gatgatgt 378

<210> 52419
 <211> 199

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A4

 <400> 52419

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 gcatacttac ataatcgtgc atgctacatt atatctactc tatagtggtca tacaaattca 120
 atacattgaa caccctttca catacccaag taaatggaaa accataacat taccattttt 180
 actaatcttg caatacata 199

<210> 52420
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A8

 <400> 52420

 acgcgtccgc ctacgcgttc ataccctctt cggaattctc tgaccctatc attgcgaaaa 60
 aatgtagggg aaagccggac ataga 85

<210> 52421
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-E2

 <400> 52421

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 ttcttatact ccaatatttt cctcaaatat ttattcattt ataattctaaa tctccctatt 120
 atctacacca accatcctct attctaatta aaatatcaat tattctcaaa tcaataatct 180
 acattctatt catccacaac tcaatcaaaa ctttctccat ttcattcttat taatcattac 240
 aattttctta cccac 256

<210> 52422
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E3

<400> 52422

accactcat cccaacatag cctttatcta ttctgtcaa tttattcttc ttacataatt 60

<210> 52423

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-E5

<400> 52423

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catgaatgac tgattctcaa agcatgcgtg agctacatag attggttcta gtcgatacac 120

cactggcccc ttactttctca gagtgcatta catctgagga tttggatgac atgaatattg 180

agattatgag gaacactctc tacaaagcat atcttgagga cttctacaaa ttttgccaga 240

aactaggtgg tgcaacagct gacatcatgt gtgatctnct ttcatttgaa gctgacagaa 300

gagctgttaa cattacaata aatagtattg gtactgagtt gacaagagat gaccgtagga 360

agctgtactc caactttggt ttat 384

<210> 52424

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E6

<400> 52424

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attaactcca aatatcacia cactc 85

<210> 52425

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E8

<400> 52425

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atgaaaaaga aaggttcaag cgtgaatgca gcacaagcta tgatcgttca agtaagttta 120

gatgttacac tttgcgggtca ttcgacataa tctgtgtatg ccataccatg acctcttatg 180

<210> 52426

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-F1

<400> 52426

ggcggctctc tttatccttc tagggatttt cctgatacta acatcaacat cgtattggcg 60

caagatgact acaaaagcaa tcattcagct tctgttcttt gctttggttt ttgccacatt 120

tacggcgcacat ggggcttggg gagagaaagg ttgctacgat gaaaaaagaa aggttcaagc 180

gtgaatgcag cacaagctat gagcgtncaa gtaagtcttg ttgcgacact gtgcggtcgg 240

tcgacatggc ctgtgttcgc cgtaccatga cctccgagga ggaaacggga ttaagtgttc 300

aaaagatctc ttttctttca atggcttgca acaactcatt gcgagtcgtc gggaaaaaat 360

acggagatat tcctaaacga ccaatgt 387

<210> 52427

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-F10

<400> 52427

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gcagagcttt ggagaacctt tttttatggg tattcgtgag gatgagaccc tatcttctat 120

caaagaacgt atacagaaaa agcttaaggt tccagatgag gatttctcaa agtggaagtt 180

tgcatacatt tcaactcgggc gtcttgacta ttttgaagat tcagatactg tagccctaaa 240

attccagaga aacatgtatg gagcttgga gacgtatctt ggactggaac atnccgaca 299

<210> 52428
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F11

<400> 52428

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aaaaaaaaa acaaatgaaa agctaaaaaa aacaatttaa atataaatat aaaaaaaaaa 120
tcaaacccta tctatatctc aaagaactta tacactaata tcttaaagtt ccagataatg 180
atttctaaaa atgtaatatt gcatacattt cactcattca ttctgactat tctgaatatt 240
cagatactgt cgccctaaaa ttccatataa acatttatcg agcttggttag caatatatac 300
tacttatata tccttacact t 321

<210> 52429
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F12

<400> 52429

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gaggacgagg tggtctgcct gttcgagggg gtgctggaca acctgggtcg tctgagccag 120
cagcacgggc tgtcaagcaa gggcgccaac gaggtgctcc tcgtcatcga agcctacaag 180
acgtgcgcgc accgcgcgcc ctacccggcc agcttcatgc 220

<210> 52430
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F2

<400> 52430

ggggggctgg ctttatcctt ctagggattt ttcttatact aacatcaaca tcgtattgtg 60
gaatgatact tcgaaagggt gattcacctt ctgttctttg ctttggtttt tgccacattt 120

acggcgcatg gggcttggtg agagaagggt tgctactatg aaaaagaaag gttcaagcgt 180
 gaatgcagca catgctatga gcgccaagt aagtcttggt gcgacactgt gcggtcggtc 240
 gacatgtcct gtgttcgccg taccatgacc tcctattatg atacggtatt aattgtt 297

<210> 52431
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F3

<400> 52431

ccaaaccgac ccactcaacc aatcggtctt cttatcctt ctattgattt ttcttttact 60
 aacatcaaca tcgtatta 78

<210> 52432
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F6

<400> 52432

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 aattgatcca taaatcttac tccattcata caactcacta atataaactc atttatctta 120
 catcaaccac atattaatca aacatatata tatcccatat aaacttaaca tcaataactaa 180
 ctactcatt 189

<210> 52433
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F8

<400> 52433

aggctgacct tcccgaggag cgacagatcc agcttcctgc ttatcttggc tcatggattt 60
 gtttggttc caaatggttc gatggctcta aaatagtcag aatcacatga catctgtgct 120
 atagatatgg acctcagtgg ttttctccac attaggaaag ctggaagagc cgttttgaac 180

tcaatttttt tgctaacatt ggtggttatgg tgaacatat ttttgtgtgt atgtaccaac 240
aactaaaatg taaacacgac attatcatat ttgattacag gaataattat ctcttatatc 300
tta 303

<210> 52434
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G1

<400> 52434

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gcggctgact gacactgac tatatagtct gtgtggcact gtacactgta ccagttctgt 120
atgagaaaata tgaggacaag gttgatgctt ttggtgagaa ggctatgact gaactgaaga 180
agtattatgc cattttcgat gagaagtgcc tatcgaagat tgcaaagggc ccccttaaag 240
ataagaagca ctagattggt agtaaggat ttgctatgaa tcaacatcta cattatgtca 300
ctagctgaca cctctatctc tgaaggattg tgctaggtac tggctcttag ttgatagtat 360
ataatctgta tgtgcaactt ttgtgtgact gacagtttgt tg 402

<210> 52435
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-G10

<400> 52435

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atcgtgccgg agaggagaag ctagctaagt agcggcagct ctggttggtgt gtgtgtgtgt 120
ggagggtagc tgcagctggg gctagctgga aaggctcgga gccatgggga ggggccgggt 180
ggagctgaag cggatcgaga acaagatcaa ccgccaggtc accttcgcca agcgccgcaa 240
cggcctgctc aagaaggcgt acgagctctc cgtgctctgc gacgccgaag tcgcgctcat 300
cgtcttctnc aaccgcggca agctatacga gttctgtagc ggaccgagca tcacgagaac 360
actngagagg tacgaaaaaa acagttatgc angcccagat actgctgtac agaacaaaga 420

463

<211> 443

<212> DNA

<213> Zea

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-E12

<400> 52436

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ctctgccttc cggccgcggc aatggcgtcg ggggaacaaca acaagcagag gagcgaaggag 120

gagtgagcgcg tcgtactctc ccctgagcag ttccgcctcc tccgcctcaa gggcaccgag 180

ttacccggga caggagagta caacaaattc tacggcgacg gggtttataa ctgcgctggc 240

tgcgggactc ccctgtacaa gtccgccaca aaatttgatt ctggctgcng ctggcctgca 300

ttctttgagg ggcttnacagg agccataaac cgaacaccag atcctgatgg taggagggta 360

gagatcacat gtgcaguctg cggatggccat ctgggccatg tngtcaaggg tgaagaattc 420

aagacaccta ctgatgagcg cca 443

<210> 52437

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G11

<400> 52437

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gacatgatta acgatgacaa gaggcacgc tacaaaggta cacttgatgc gttcaciaag 120

atggtacgat atgaggggtct gtcaggggatg tacaaaggaa tgggcacaaa aattgtgcaa 180

agtgtttttg cttctgcttt gcttttttatg attaaggagg agctggtgaa gggtgctcga 240

ctattggtaa ctggtaacac tagtctggtt aagaaactac catcaaagtc atcaagatga 300

actacgggca tcgcaagcgt tagtatatca tcctaaaaag ccatttatta tccgcataaa 360

ccgtaaacaa ggtcgacaag ctatagagct cgcctctgct ttggatatgt caactgtagg 420

ttacacaa

428

<210> 52438
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G12

<400> 52438

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gttcgggttc gggttcgtga ggttctccgg ggttcgggtt cgtgggtgag cggatcgaga 120
tggcggcgtc ggatgttgag taccgctgct tcgtcggcgg cctcgcttgg gccacggacg 180
accactccct ccacaacgcc ttcagcacct acggcgaggt cctcgagtcc aagatcatcc 240
tcgatcgga gacgcagagg tcccgcggct tcggcttcgt caccttctcc acggaggagg 300
cgatgcggaa cgccatcgag ggcataaa 328

<210> 52439
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G2

<400> 52439

cccagatcga ccgacgggtc cgaagggcaa gtacatctcc cttctcttag gctggggtttt 60
cgggcgggta cagagctgaa ggcacgggt gacacggtag gttggaggca ccgtcgact 120
gtacactctg ccagttctag atgagaaaca tgaggacaac gtacatgcac tcggtgagaa 180
ggctattaat gaactacagc ggggttatgc agttcacgat gataattgcc tgatatacat 240
agctatgcac ctgcttaa 258

<210> 52440
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C10

<400> 52440

gagaccgaat actcagtga tgttgtgaag catatTTTTg atcgacatgt tgtgctccaa 60
gacaggctga ccaatacaat tgctgaacaa ttgcttgaac aggttattgt tttggttgat 120
gcttctgagg ctgacgaatt tttagaagtt gcttcaaagc ctttagaatac attaccatat 180
gattctcctg ggcagacctt t 201

<210>	52441
<211>	278
<212>	DNA
<213>	Zea mays

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tccgtctacc	cttctctaaa	taaatttaac	actaaatgtg	aggcttataa	aaaaactaat	120
acaacaaaat	aaataactac	tacacacaaa	tattcaaaat	ccaattatg	ataaaaattgt	180
aaaaagaagt	ctattactac	cttaaaaaaa	gtttgataca	acccttaata	agatccactt	240
tattccaatc	tattcttttt	aatgtgacaa	cattatttt			278

attccccgac	ccaccctctc	ttccgcaaca	aacactaaat	acccataaaa	tctatttaca	60
aaaaacaaaa	aaaaacacca	aagaacgctt	acataataaa	attaacaac	cccctaccta	120
cttactaacc	tcacctccca	actttcaacc	accctaccta	acactccaca	ccctacaact	180
taatcacttt	cctataaaact	tcccaaattc	aatatcactc	tccttctttt	caaacttacc	240
tatcttcaca	aaccctaact	tatcccaact	aaatcccata	acactacatc	ccccttatcc	300
cacttttctt	aatacccaaa	atccccaaac	caatctcctt	ttcaaa		346

<213> Zea mays
 <223> Clone ID: LIB3079-056-Q1-K1-D11
 <400> 52443
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 gtgcggccttg aattaccact tcctctcaac cgtaccactt acaagggctg cctctcaagc 120
 ctgatatcca tcgcacaagc cctgcgtggt gcagcccggg ctaatcagaa acccctgctc 180
 tctcttcgcy ttgagggtcc agtttccctg tcctcgactc cttccatgct tcccaaggac 240
 aagctcaagc tcaaacggtt ggccccaggc caagtggagc tcttctcaca agcgggggca 300
 atccctgcta tcaccgaaga cgaagatgaa ccacataacc ctggattgtg gcctcttttg 360
 tctctg 366

<210> 52444
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-D12
 <400> 52444
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 tcacagccat ggaatagagg ctgggttcgc atcaatgctc agccctggcg caaaggagtt 120
 cagagtgacc cacatggaac tgatcaaagg aatcaaaggt catggctacc atgatgaatt 180
 gggcattcct attattgaga ataccctta tgagtatgag ctactgact acctaagtga 240
 ggcgattgca gcatacccaa aggcaactgc tgtgcttgtg acgaaccacg caatatatat 300
 atgggggggag ccttcgatca atgcct 326

<210> 52445
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-D2
 <400> 52445
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ttctggagtc agttgactgt gaagttgaca atgaaaagat ggaactcctt ctgtcccaac 120
 tgagcagtaa ggacattacc gaactcattg cttctggcaa gtagaagtta gcttcattcc 180
 catg 184

<210> 52446
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E10

<400> 52446

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 cgatgcttcc ttagatTTTT tgtcttttagc gtaataataa ttattaaaat taaaatctcg 120
 ccaaactgac atttgtggag tggagacact agcagatgac ctcattccaa atcaaact 180
 tcggagcaca atcagcaata tgttgggaac acagacaagc agtgggtgga gtggtacaac 240
 aagacacaga agttcgctcag gcagcaaccc taacccaaaa tacagagcca cactgcttct 300
 gttgcgtcag caggggaggt gaagcagtct atagaccatc agctaccagc ggtatctgca 360
 cctgattatg tgctccaggg tgccacagga agtgacctgg tgaaccagcc tctagagaaa 420
 tagcagccac tgctgaaatc ctagcaaata tgaa 454

<210> 52447
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-E11

<400> 52447

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 tgggtgttgc gccggcttga agggagatca tcgtctctgg tatcggtca cgcttgccgcg 120
 gtccctcacc tagagggccg cacggcagtg gagcgacgtt gctacgaggg gccatgtgga 180
 tgcgcaatgg tctcatgtg ctggcgagta tgttgttctc tgggtgtgct agtcgtcgat 240
 cggctgttgt cgtcctagcc gttatagcct gcgtcatgtt tgtgtaatcc gaccgggctg 300
 tgttgggcca ttggtattga tctacccttt tgtaatctcc gntctgcttt gtgtaatcct 360

actgcccatt ttgagccatt gatctaataa aatcangtgg tgattgctcc cncgttgacc 420
ggt 423

<210> 52448
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C1

<400> 52448

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cttcgactgt ttagatctaa ggggtggggg ggcccgcct gcctatgatg atggaaatag 120
gtctagagag aggattcaga actgcattga gtgactttgt acttatgcag ctccagttag 180
catctgtgtt cttcacattc tctcttgga ccaaaactca ctactactga accacactgc 240
tacattgagg agctgaatat agagctacag tgcgtggatt tgtggtgtt catgcc 296

<210> 52449
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H8

<400> 52449

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catgctctcc ttgcgttcac tcttgaggatg aagcagatga tttgctgctg caacaagatg 120
gatgcaacga ctcccaaata ctccaaggcg cgttatgatg agattgtgaa ggaagtctca 180
tcctacctca agaaagttgg gtacaaccct gataagattg cctttgtccc catctctggt 240
tttgaaggcg acaacatgat tgagaagtcc accaaccttg actggtacaa aagcccgacc 300
ctgcttgaag ctcttgacca gatcaccgag cccaagagac cttcggacaa gccctgcgt 360
cttcccct 368

<210> 52450
<211> 260
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-A1

<400> 52450

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aacttaacac catggaagac cnaccacccc accgtcatct ccactctcat ctctctactc 120
caccgccacg acctgagctc taccatcgct cactctctcc actccaccta cctatcctac 180
cagtgaataa accatgacat ctttccccac gttcttctac cccctctact gccctcatca 240
tcaccttcat ctctaccacc 260

<210> 52451
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A12

<400> 52451

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acgtcgggca aagccaggag atcgctccca cctcttccaa cagctacaac ggttcattgc 120
agacagtcca catgaaaatg gagctttgag gcatggccgg ggaaaaagaa agaaagaaaa 180
ccccagtccg aagctcgacg ccgtcgctcc cctgtacat acggagaaga gaggacacag 240
ctcgaccggg aagcagcggg ctcttggggg gtccaatcca acctaacgac gttggcccct 300

<210> 52452
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A2

<400> 52452

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ccgcaagtaa ttcgtcagtg aggacggcgc tcaaggccgc gacggccgcg accttcggcg 120
ggtcgatgct ggtgctgtcc gggctgatcc tggccggcac cgtgatcgcg ctacaggtgg 180
ccacccccgt gctgggtgate ttcagcccg tgctggtgcc ggccggcatc gcgctggcgc 240

tcattggcggc cgtgttcggtt acctccggcg gcc

273

<210> 52453

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A5

<400> 52453

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gtccgggctg atcctggccg gcaccgtgat cgcgctcacg gtggccaccc ccgtgctggt 180

gatcttcagc ccggtgctgg tgccggcccg catcgcgctg gcgctcatgg cggccggggtt 240

cgtcacctcc ggcggcctcg gcgctcgctgc gctgtccgtg ttctcctgga tgtacaagta 300

cctgaccgtc aagcaccgt 320

<210> 52454

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A7

<400> 52454

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tcaccctgat cagctcact acgaccacca ccacgtatt catctccaat cccaaacaat 120

acactgcact caacattaat ccgactacca aaaat 155

<210> 52455

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-B1

<400> 52455

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atgtgaacaa catcaaggaa gagatgcgca ggaagcaggc tcatgctgct caggaggcgt 180
 acgaggagga cgacgagatg cctggcgagg cccaaagagt gcagtgcgct caacagtaag 240
 cagactacca aaatgggatt caaggcactt tggttgctct tcaattatgc gagtgcgcct 300
 gtggactgta tggttctatg gttttgctgt cgctgagcta caaagtanga agctgatgcg 360
 ccctgggtc tgcaagcggn ggaatgtatc cttttttgct gcaactgaaa aatgctaccc 420
 aggca 425

<210> 52456
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-056-Q1-K1-B10
 <400> 52456

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 ggtagtggac actgcggaaca ccgctatcta cagcatcgag aacagtcttg gagagtacag 120
 ggacaagatc ccgggagatg ttgcatctga gaacgaggca gtcatcgctg accttcgcca 180
 ggagatagga ctcggtatgac atcgagaaga tcaaggtaa gcttgatgct gccacaagg 240
 ctgctcgaa gattgggtcag cacatgtcaa gtgggtggctc tggcgactca cagtcagcat 300
 ctggacctca ggggtggcgt gaccagtcgc cggaggcaga gtatgaagag gttgaaaagt 360
 gag 363

<210> 52457
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-056-Q1-K1-B11
 <400> 52457

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 gcaagggccg cagcggcagg ccacgcatct ctctccctc cttctccccg ttctccgtgc 120
 aatctcggcc gtttccgctc ccgccatcgc catggaggag gccaaagggtg tggagtccaa 180
 ggacgggacg atctcagttg cttcagcatt tgctggcat caggaagctg tgcaagacag 240

ggaccacaaa tttttatcaa aggcagtgga ggaagcatac cgaggagttg actgcggcga 300
 tggaggacca tttggtgcag ttgttgcca taatgatgaa gtaatagtta gctgccataa 360
 catggttttg aagaacactg atccaactgc gcatgctgaa gtaactgcga taagaaaggc 420
 ttgccaaaag cttgggaaa 439

<210> 52458
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-056-Q1-K1-B12
 <400> 52458

gttactgag caaggaccat ctatgacagt tggttcaagt caagaggggtt tgattttttg 60
 gcatgtatgg ttccacagaa gagcctgaga atgcattatc gaatctcaat ggagctatga 120
 gttctgaaac ctttttttct tccccttgct gctcgcgga tagcatttg aaattgaagt 180
 acaatttgtc tttcaggata tactgaattg atttatcatt gtccctgcagg acttggatga 240
 tagatccgtg ttacgatacc agcatcaaag ccgcctagaa gcaatactga actttcactt 300
 gagatgtgag taaagttgtg tgggggcctt cgtcctccga aggtcctcaa aaacatgatt 360
 tgacaatgtt ttccaagtgg attatgtgaa caggtacctt c 401

<210> 52459
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-B2
 <400> 52459

cttattagta cttgtccctg ctattctctt ggccatgcaa gaagagaaaa gagccagagg 60
 agcatctgct gttgaaccgg tgcaacatgt accaagagcg ggcagcgaga tcaatgttgc 120
 tgggccaagt gtgggcagtg agactaatgt tgatggacta atgttgatc aagaggcttg 180
 tgaagttcag tctccacctt ctgttacgtc agtatataga agtgggaaaa agcgggaagaa 240
 aagtcaagtt gcaagtgttc tggatgacta tttggagcac aagaagaagc aaacacagaa 300

gattatggag gtgttacttg agaagaagag tcgtgaagag gagtactcta tcgagagggtg 360
tctcgacaca gttgatgtta tggaggactt gacggatgan gagaaggccc ttgcagcana 420
ngtgttcaag aatg 434

<210> 52460
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-B5

<400> 52460

ccccgactcg ctttcacccat acccctacct aaattaaaaa aaaaaaaaaa aaaaaaaaaa 60
cgaaacgaaa aatttaaaaa ttgaaaaac ccaccaatc taacacacaa ccatacatta 120
caagaacaac atctactaaa ataacctcca taaacaacac ccatcccact taaaaatcct 180
acctacacga ccactaaaac actctcacca cccaaacaat ccacatcact caacattaaa 240
cacactacca a 251

<210> 52461
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-B6

<400> 52461

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agcatctgct gttgaaccgg tgcaacatgt accaagagcg ggcagcgaga tcaatgttgc 120
tgggccaagt gtgggcagtg agactaatgt tgatggacta atgttggatc aagaggcttg 180
tgaagttcag tctccacctt ctgttacgtc agtatataga agtgggaaaa agcggaagaa 240
aagtcaagtt gcaagtgttc tggatgacta tttggagcac aagaagaagc aaacacagaa 300
gattatggag gtgttacttg agaagaagag tcgtgaagag gagtactcta tcgagagggtg 360
tctcgacaca gttgatgtta tggaggactt gacggatgan gagaaggccc ttgcagcana 420
ngtgttcaag aatg 434

<210> 52462
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-B7

<400> 52462

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gcggtatgat catttgctgg tgaaccggtg caacatgtac caagagcggg cagcgagatc 120
aatgttgctg ggccaagtgt gggcagtgag actaatgttg atggactaat gttggatcaa 180
gaggcttggtg aagttcagtc tccaccttct gttacgtcag tatatagaag tgggaaaaag 240
cggaagaaaa gtcaagttgc aagtgttctg gatgactatt tggagcacia gaagaagcaa 300
acacagaaga ttatggaggt gttacttgag aagaagagtc gtgaagagga gtactctatc 360
gagag 365

<210> 52463
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-B8

<400> 52463

gtacttggtcc ctgctatctt cttttccatg caagaagaga aaagagccgg aggagtatat 60
actgttgtag ggggtgcacca tgtaccaaga gcgggcagcg agatcaatgt tgctgggcca 120
agtgtgggca gtgagactaa tgttgatgga ctaatgttgg atcaagaggc ttgtgaagtt 180
cagtctccac cttctgttac gtcagtatat agaagtggga aaaagcggaa gaaaagtcaa 240
gttgcaagtg ttctggatga ctatttggag cacaagaaga agcatacac 289

<210> 52464
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G1

<400> 52464

agcggaccag ccgctgaaag aaaagggttc ctggcccaac tcgcatccgt gtcaccgcgt 60

gcgcgggtcg aatcattcctt cttccgtcac catacatact gtagacagtc gaacaatcgc 120
cggctagacg cccctcttct ggacgccgca cgccttgacg 160

<210> 52465
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G11

<400> 52465

ttcaaactcg tgtttgacgt caagaatgaa ttcaagtcaa tgtttctgag ctttggcagt 60
ggcaagaatg ccgccatgga gatccacact gaaaactacc tcattgtcac aaaaaatgga 120
aatgtgtgcc tgggcattct tgatggaacg gctgccaaagc tgagtttcaa cgtaattgga 180
gacatcacga tgcaggatca gatggtgatc tatgacaacg agaaatcgca gctgggatgg 240
gcgcgtgggg catgcactag gagcgccaag tctattctgt cttcctttcc ctgagctcag 300
ttctatgtac ttctgataga gtttaagaaa atcactatat caaacctcct cgcaatgcat 360
gaatttccta actgaagagg gagggagaga gagagagaga atgttcctgt ttatgtagag 420
atggagtcca aaatttgtgt 440

<210> 52466
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G12

<400> 52466

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gatactgtc ctgcttgtga ccccccctcg catctccatg gcactgccat cactatcaac 120
gagaatcgaa gggagtgtca taggggagag atccaacttg ttctcacagc tgcaactcca 180
taattctagc cctacagaaa acaaactcca accaggtgaa aagtcctttg catcggaggc 240
atatgcggtg aactggaacg aaccaccaga ccaacaatcg caagactccc tcgagcagct 300
agagccgtat cgagtgatat ggaaacaacc agtgcaaggt gaaaagtcct tcgtatccga 360
ggcatatccg gcgaaatgga acaaaccacc atcaccaagc atgcaatcgc aagactcctt 420

cgagccagag gcatatcggg tgaaat

446

<210> 52467
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G3

<400> 52467

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aggacacttt ctgcttacca atctcctcct tgataccatg aaggccactg ccaagtctac 120
gggcattgag ggccgcattg tgaacctgtc atcagtcgcc caccaccata cgtatccgaa 180
gggaattgac ttcgataacc tcaacgatga gaaaatatac aacgacaaaa tggcttatgg 240
acagtctaaa gctgc 255

<210> 52468
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G4

<400> 52468

atccttaaac ccaagaattc accttcgtcg ccataacgc catacctttt gtgctatcca 60
gattaccacc aaaactgaac cttgaaccct atctcgaatg gtatcaacga ctcattctta 120
aattacgaaa gtttcaatca caaatgttc tactgctccc aacataaata taataccaca 180
tgttatattg aaacatatat atccatcatc catatacc 218

<210> 52469
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G7

<400> 52469

gtcggcgatg gtggaactgg taaaactaca tttgtgaaga ggcattctac tggagagttg 60
gagaagaaat atgaaccaac cattggtgtg gaagttcatc cgttggattt caccactaac 120

tgtggtaaga tcaggttcta ctgctgggat accgcagggc aagagaagtt tggtaggctc 180
 agggatggat actatatcca tggccagtgt gcgatcatca tgtttgatgt aacctcaagg 240
 cttacttaca agaatgttcc tacgtggcat aaggacctgt gcaggggtctg tgaaaacatc 300
 cccattgtcc tctgcggtaa taaagttgat gtgaagaaca agcaggtcaa agccaagcca 360
 gttactttcc acaggaagaa gaatctgcag tactattaaa tttc 404

<210> 52470
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-G8

<400> 52470

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 atccatcctc tttccctccc tcgcttcgct tctcggcggt attcctctc cctcggccgt 120
 ccccgcccc tttttcggcg cgcgagctcg cccgagatgg caaacgcgag atcgggtgtc 180
 gctgtgaatg acgagtgcac gctcaagtgc ggcgagctgc agtcgaagag gctgcaccgc 240
 ttcttaactn tcaagatgga cgacaagtgc aaggagatcg ttgtggacca ggtcggggat 300
 cgcgctacca gctacgagga cttcacaaac agccctcccg agaatgactg ccgatacgcg 360
 atctatgatt tcgactttgt cactgcagaa gatg 394

<210> 52471
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G9

<400> 52471

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 ggaaggcccc tttgatgtgg atgtttttga ctctagtgtg gattacataa agttaatgaa 120
 gacaattttt gacttcgaag caataaaaaa gctgctgacc tccccaaagt ttacattctg 180
 ttatgatgca ctccatgggtg ttgcggggagc ttatgccaaa cacatctttg tggaagagct 240

tggtgctgat gaaagctcac tggtgaattg tgtcccgaaa gaggactttg gaggtggtca 300
tccggatcct aaccttacct atgcaaa 327

<210> 52472
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H10

<400> 52472

aaaaaaaaa aaaaaaaaaa aaaataaaaaa tataaaaaaa aaaaaaaaaa aaaaaaaggg 60
agtgaatatt tttaaattaa aaaaaacaaa caaaaaaaaa aaaaaaatgt tctaaaattt 120
tataatgaaa cataatatat tattccttct tccaaagttt atatcatctt atcttaaaaa 180
taaatttaaa ttaattaact tgactctctt ttaaattt 218

<210> 52473
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H11

<400> 52473

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gcgtccccgt ccccggcgcc gtacctctcg ctattgtcct cggtgccgca ccttctacat 120
ctctgtctca ccgcttttagc acgtacacca cgccgcctg cgctagatcc catctgaagc 180
cagcggacat catacccttg agcgctagct gggctgcatc tctaacctcc acaggcagca 240
agcgagcgtg gttagcgccg cagtggtttc accgacctta aatcggggccg taagctcgag 300
gactgtcact aatttcttga gcttaaagtg tcagaggggt taataccgca gtgtatgagg 360
gtgac 365

<210> 52474
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H3

<400> 52474
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gtcaaggggc aagttgctga ggagaagggt ggaatcaaga ctgacgcttc ctttgaaaca 120
agcggttcctg gagtatatgc cattgggtgat gtggctacct tcctttggaa gatgtccatt 180
gaagtttagga gagtggacca tgttgaccat tctagaaagt ctgcaaagca ggctgtaaag 240
gcgatcaagg gcaaaaagtc cgggtgaacca gttccggagt atgactacct gccatacttt 300
tactcccgat cattcaacct ggcggtggcaa ttttacgggg acaacgtggg caaaaccatc 360
ctgttttgag acagtgaccc caccttcagc aagccc 396

<210> 52475
<211> 349
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-H4

<400> 52475
ggcagaatta agtcaaaatg aatttgtctt gacaaacgag aggttccttg tcccagagat 60
gcttgttcat ccattgatc ttggcataaa tcaagctggg cttgctgagt gtatagtctg 120
tgctgtacaa gcttgccatc catatcttca acctgtgctt tttgagagca tcatcttgac 180
aggtggaagc aactgtttcc ccagattcac cgaaagattg gagagggaac ttcggcctct 240
tgccctgac gactacaagg ttaagataac tcgtcaagag aagtatgtct ctgcaccccc 300
ctcttgcatg cccaaattta ttggtggaaa atgctgaaaa atgaatcat 349

<210> 52476
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-F7

<400> 52476
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gaagcaatca cttgatcatg cacttgcttc aagcgaggct gacggaggca gtgggaaaaa 120
gcgcagtagg ggtgggaaaa ggaagcgtga gaagaagttt gcagaacagg ccatggctgc 180

taaagctgaa gaagctgaga gatctgtctt taattttatc aacagccatc tagtaagcca 240
 agaaagttcg accaccaaag ttagaaaggg ttcacagctt gagaccaatg gactcgctaa 300
 gaaagaagac cgaagatcct tggttgcata ccgtgaagaa gtgaaagaac ttaagattcc 360
 agttgagaaa ctggaagaga tgaagaaccg ttactgcaaa gacaaggcat tctttg 416

<210> 52477

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E12

<400> 52477

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 tgagtcgcca aataagcttt tacttctctg ctgctgtggg tgaagtgact gtaattcact 180
 aattttgaac taacaaaacc caccgttgat ttgtatgata cgttttgttc aacagtttgc 240
 gtaccatctt tcaactgtgg ccactttaat caacaatcaa ttccgcaatc atctcaaact 300
 catgaagcaa gtaatctgag atctccagtt gatgtcaatg ttggagatgg ctcttaaacc 360
 tcacctgggc agcaaaatgg tctggtcact ctctctcaga taatggactt ttttggatca 420
 atgctcccag gcgaaaatg 439

<210> 52478

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E2

<400> 52478

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 gatctgatgc acgagctgct ccgccgcatg aagtgcagct ccaagcccga caagcgctc 120
 atctcatcg gtccacctgg ctctggaaag ggaactcagt ctctattat caaggatgaa 180
 tattgcttgt gccatttagc cactggtgac atgctgaggg ctgctgtggc ggccaagaca 240
 cctctaggta tcaaagctaa agaagctatg aataaggag agcttggttc agatgatttg 300

gttggtgggca ttattgatga agctatgaag aaacctcat gccagaaagg tttcattctt 360
 gatggctttc ctagaactgt gactcaagca cagaagcttg attag 405

<210> 52479
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E3

<400> 52479

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 gccctggctg gaagcgctgg tgtgcctgcc acctacaccg aaattcggct ggaagaagtg 180
 cccgagatgg gttataatcc actcggcggt ccttcgcgtg gtgaaatctg catccgggga 240
 aaatccctct tcgctgggta ctacaaaagt ccagaactca caaacgaagc catcgctgat 300
 ggggtggttc atacaagtga cattggaaag atgaccccaa acgggatctt gaagggtgatt 360
 gacagaaaaa agaacatatt taagctgtct caaggggaat atgttgcggt tgaataacctg 420
 gagaa 425

<210> 52480
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-E4

<400> 52480

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 gggcggctgc tgccctctcc tntccctct cctcagcgtc cccctcgtc cgcctaattct 120
 ctgcgcgcgg ccttgccggt gccgcagacg gccatgggtc tgcgaagggt cccttgtgga 180
 aagatccgtt gagcccgagc aagtggaagg aagagcactt tgttctagca agcctctcaa 240
 tgtgggggggt tattttttat ggtgggttaca agcttttttag tggaaagaag gaagccaaga 300
 ctgaagcggc atcaccacag gcataagtgg cggagatgga gttatacccg tatctgtggc 360
 ctggcaacaa tggttaaataa aaggaatgct ttatgttgtg ctttcaagtt gataaattgt 420

ggcaacagga gattttgctt ta

442

<210> 52481
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E5

<400> 52481

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gtggagagcg gcagccccct ggtccccaac aggatcaggg agtgccggtc ctaccgctg 120
taccggttcg tgcgcgagga cgtcggcacc gagtacctga ccggcgagag gaccaggctc 180
cccggcgagg agctcaacaa ggtgctcgtg gccatcaacc agcgcaagca catcgacctg 240
ctgctcgagt gcctcaagga gtggaacggc gcgcccctgc cgctctgctg agctcagctg 300
cacgcacctg ctccgcacaa agaaagaaaa aacaaaag 338

<210> 52482
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E6

<400> 52482

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gcatcatggg gccttcggac agcccatttg cagggtgggt attcttgggtg aacattcact 120
tcccaccgga ttaccctttc aagccaccaa aggtgtcttt ccgcaccaag gttttccacc 180
cgaacatcaa cagcaacggc agcatttgcc ttgacattct taaagaacag tggagtcctg 240
ctttaactat ctcaaaagtt ctctgtcaa tctgtcact gtcacggac ccaaaccctg 300
atgat 305

<210> 52483
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E7

<400> 52483
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 gagagcttgt tgagcttcca ctacgccatc ctcaactttt caaatctatt ggtgtgaagc 120
 caccaaaggg catattgctg tacggggccac ctgggttcgg aaagactctt attgctcgtg 180
 ctgttgcaaa tgagactgga gcctttttct tcttgatcaa tgggtccagag attatgtcaa 240
 agctggcagg ggagagtga agcaatctca aaaaggcatt tgaagaagca gagaagaatg 300
 ctccatctat catttttcatt gatgaaattg attccattgg acccaagaga gagaagaccc 360
 atggagaagt agaacctcgt attgggttcac aagtactgac tcttattgat tgactgaaat 420
 ctggttccca tggttattgt 439

<210> 52484
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E8

<400> 52484
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 cgccgtcgtc gtctacaaca aggacaagcc atgggatgac cactggattt tctgggtggg 180
 cccgtcctg ggcgtgcca tcggggcctt ctaccaccag tacatcctcc gggcgggccc 240
 catcaaggct ctgggtcctt tcaggagcaa cgcgtgatga gcagagctaa agaaaggcct 300
 tcgtgggact gcgtgctgga gcaacggcga tcgatcgatc taacgtgggg agaggccgat 360
 aggcggggccc ccaaaggagg agaataagtt tgtgcccggtg gcccg 405

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<223> Clone ID: LIB3079-055-Q1-K1-E9

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 gaaatgctcc gtggggctct tcagcagaac ctccagcagg aacgacactt tcggttccct 360
 caatgtactg gcatggatac tatgcgcctt caagtgggct gccacctcat ttgcagc 417

<210> 52488
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 <223> Clone ID: LIB3079-055-Q1-K1-F2
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 ggaccagcta aagaaggaac aggacgaaat cgttgccgat atcaacaaga ttcacaagaa 180
 gtcctctgca tccccagaga tggttgataa accagttgac accattttgc tcaagcttcg 240
 tggtttatat gcacgtgcaa aggagctctc tgagaatgaa atcagtcgct caaatgcttt 300
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 agaagttggt gagcagaaaa agaagaggat ca 392

<210> 52489
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 <223> Clone ID: LIB3079-055-Q1-K1-F3
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 tgatattgcc aatgagatac cagcaaagt gtgagaagttg cagtatcttg catttgcaag 180
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<210> 52490
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<223> Clone ID: LIB3079-055-Q1-K1-F4

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 ttctattttca aaagttttgc attttgcaaa aaaaagatat aaaaaaaca aaaaaaaca 180
 atacaaaaga aatattatag acataaaagg aacctaataa ggatattttg caccaataaa 240
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<211> 390

<212> DNA

<213> Zea mays

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 cccctggagt tctatccaca agggtttttag cgctaagaa tcataagggtg aggcgaaata 180
 tttcagccgc tccaccgcaa cgaactgggt tacattacca gtcctcaagg gggccttagt 240
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<210> 52492

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E11

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tactcagggg cagcgagatg ttcaacgaat ggactctgga actgaaggcc atggctgata 180
 ggatcattaa catgaggcaa caactattta atgcgctgaa atccagagga acccctgggtg 240
 attggagcca tatcattaag caaattggga tgtttacttt cactgggctg aatagcgaac 300
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 tggccgggttt gagcatgatg actgtgcccc atcttgcaga tgccataca 409

<210> 52493
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C5

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 actccgccgc ctctgcccgt ccgacgccgt cacccaactc ctcttcacc caatcgctc 240
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<210> 52494
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 <212> DNA
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<223> Clone ID: LIB3079-055-Q1-K1-C6

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 atcaacgaga atcgaaggga gtgtcatagg ggagagatcc aacttgttct cacagctgca 180
 ctccgataat tctagcccta cagaaaacaa actccaacca ggtgaaaagt cctttgcac 240
 ggaagcatat gcgggggaact ggaaccaacc aaccaaccaa ccatcgcaag acttccttca 300
 acaactagaa ccctatcgag tgatattgaa acaaccaatg caaggggaaa aatccttct 360

409

cgctgtacg gctcgtcggg atcacctggg acgatttcaa gatcgggttc tgggaggggtg	60
cggtgccgca gctcccgctg tccgtgctca actcggtgat cgcgggtgtgc aagctctcgt	120
cggatctgtt ccccgaaacgg gccgagctct tcccggcgcg ggtgtcggtg agcgtcggcc	180
tcatgaactt cgtcggctgc tggttcggcg ccatgccgtg ctgtcacggc gcgggcggat	240
tgtcggggca gtaccggttc ggcggccgga gcggcgcgctc cgtgggtgttc ctggccatcg	300
gcaagctggc gctggggctt gtgttccgaa actccttctt gacgatectc gggccgttcc	360
cgatcgggat actgggcggc atgctgctct tctccgggat cgagcttgcc atggcgctcg	420
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<223> Clone ID: LIB3079-055-Q1-K1-C9

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 atcctcttcg actcctttga ggggctggga agtcactgta attaaacaag atgaaacaac 240
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 atttctttat caagcatggt tggagattca taaggttgga gggcacatcc tgtacaggat 360
 tattttgcac aattttgcat gggagctact gcagaagggt gtcaacattt atgaaaaatt 420
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<210> 52498
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D12

<400> 52498

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 aaagcttcct gatggagagc tactggaaat tttgaagatt gactcttcta actcaaaagt 180
 gccagtagat gcctttcttg agctagtgtg gaggatttct gaactgaggc atcctaacat 240
 acttgggtctt gttggatact gtgcggagtt tgagcagcga ttacttgtct atgagtactg 300
 tagcaagatg accctacatg atgaacttcg tcatgtggat gactcaagca agccattatc 360
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<210> 52499
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<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D7

<400> 52501

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 aagacgagga atggctcctt ggaacacccc acccgacgt cctccctggg cggtacaag 180
 gccggccgga cggcgaggat ggccgagtcg tccaccggcc tcagcccaa agtcgaccgc 240
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<210> 52502

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D9

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 cggcatctcc ggcgggcaca tcaaccggc ggtgaccttc gggctgttcc tggcgaggaa 240
 gttgtccctc accagggcgg tgttttacat catcatgcag tgctgtgcg ccatctgcgg 300
 cgcgggcgtc gtcaaggggt tccagcagg gctgtacatg ggcaacggcg gcggcgccaa 360
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<210> 52503

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E1

<400> 52503

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gctgtccact ggttcgcgcg cgaaacccta tccaccacgt acgcgactgg cacatgcacc 180
agctacgccg gtgagcacct caacaagcta ctcaccatca tctaccaccg cacgcacatc 240
gagccactcc tctagtgtcc caacgagcag aactgctcgc ccctgacaat ctctgatct 300
tagctgcacg cagctgtctc tgacaaacaa 330

<210> 52504
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-E10
<400> 52504

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tttgccgcc gtttgccga tcgttaaagg ctgaataacc ggcgggtggt tcggattacc 180
atcgccgact ggaacgcctt ctacgttaac ttggaccggg cttcattca cccaac 237

<210> 52505
<211> 427
<212> DNA
<213> Zea mays
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<400> 52505

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gaagccgtct gcgacaaggc cccgcagatc gacgtcacgc agttcggcta cttcaagggtg 180
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gtccttattc gcctcttggg tttagatct atatctggac tagcagtgtt ttctgtctt 360
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gctttct 427

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<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A3

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tactgattt gtctgggagg gaaacttttg ttcggatcac tggcggcatg aaagttaagg 180
ctgatcgtga tgagtcgtct ccttatgctg ctatgcttgc tgctcaagat gttgcacacc 240
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<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ggtcttggtg gtggccttta tgctccaagt ttgatgattg gcgctgctgt tggtgctgtt 180
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<210> 52508
<211> 434
<212> DNA
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<223> Clone ID: LIB3079-055-Q1-K1-A7

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aaaccagaag gctgtctaca aggatttcca tggccgaaca ccattgcac attgtgtcca 180
aaagaaaaat gatgagctca ccaagcatct gctgaagagg ggtgcgagaa cgacaattaa 240
agatggcgga agtctgactg ctctggagag aagaatggaa cttggagcga taactgatga 300
agacttattc atactatttg tgaagtgatg ttgcaaactt gcaatacaag cctttggcaa 360
ctagctggtt gtacctgata gcattgtatt gtaccacct aatttagctt ctggaaagaa 420
catgatttct acac 434

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<212> DNA
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<223> Clone ID: LIB3079-055-Q1-K1-A9

<400> 52509

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tcaatccata gcttatttat tatattatat gctcttgtga catcttcttc cctggatagc 180
ttgatagatt cagctataga ctt 203

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<211> 307
<212> DNA
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<400> 52510

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taagccactc gctgaaccct acgttgaggc gcgcgttgac caatctactt ctgaagaaga 180
tggtaggcaa ccatgtgtcg caatgctacc actaccacat catgcgcgac gacccgctca 240
tcattgcccg cgaatagaag gagcgctccag ctaaactgga aatgctgaat cgacttgaca 300
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the α and β components of the \mathbf{E} field are given by

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atccaaagat agcacagctt ctagaacatc acaaacctaa tgtgtcactt cttatgctaa  240
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<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C10

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 cagtcaatgg agattatgta atgcttgtcc agtcttcgaa cttcttggat gttttacttg 360
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acaaggacca cggcggcggtg cacgacggca ccaccgtggt gctctgggag tggtgcaagg 180
gccccaaaca gagctggaag gtgctgcctt ggggggacga ggcctacgag ccgcgcccgt 240
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caaggg 306

<210> 52521
<211> 455
<212> DNA
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aggcttctcg cgaatctaata cgtcatgggc ggaaccgtgg ttggcagggc catgctccag 180
gcctaccgcc aggccatcgt caatgcaaac aaaactggag ctgccaaga agctataaat 240
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agtgaaaatt cgacgtggga agagattgtc cagaagtacg acacaatgtt tgagaggaat 360
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<210> 52522
<211> 456
<212> DNA
<213> Zea mays
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accagggaca cactgcgccc gccctgcgc cggcctcctc gcctgcacat gcacctacac 180

<210> 52525
<211> 415
<212> DNA
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<223> Clone ID: LIB3079-054-Q1-K1-H6

<400> 52525

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ggcgcacctg gttggcagct tgggtggaca tgggcaaaga aggaggttat atggccaatg 180
gttggggctc agaccactga acagggcgac tgctcaaagt tcaagagcag cccaccccat 240
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attgccaatt gctgcaaggc aggagttgta aataccttta accaggaccc aacaaatgct 360
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<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-054-Q1-K1-H7

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cagtcacaat ccttccatcc ttatcatgag ttccattagt tcaaatgcac atacacctat 180
gcttttgctg ctgtttacgt tgattacccc tgtatcatat tctaaatcta caatatagcg 240
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<210> 52527
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-H8

<400> 52527

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tcgggggctaa caccggcgaa gccggggggcg gtcgaggtgc agcgccgacg ggtgggcagc 180
ggttggacga gccgtcggat ctccatctac gcctnccgag tctacttctt cctcatcatg 240
ctccagatcc cgctcttcag ggtcccttgt agagctggca catgcacaac tcctattcaa 300
gtaacatcat ctcaggtggg ctcaaagat atattcccag cagctgttgt gaaggccatg 360
ctctaccctg gagctaccgt gagcagccta acttaaagcc agacatttcc gagttggaat 420
gacctgtttg acatg 435

<210> 52528
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-H9

<400> 52528

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gggccggggg attggatctt ataccatgtg ggaagagcgg agcagtgatg ctgcattcag 120
tcatcgctga tccctctctt attcgaaaac agtctgtagc atgttcataa tagctattag 180
ctagaactag aaatgattcg agggcaattt cagaaaatgc taaagaaaca tatgctgtat 240
ctcaagggtt tagctctgac atgattctgt atgttcctag atataagaac gcatacattc 300
tctattcaaa ataaaatgct cagaggagat aaatttgtct cnnaaaaaaa aaagggtataa 360
aaaaatgtat tttttttaat 380

<210> 52529
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A11

<400> 52529

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gcttattcga agatgggttg catgctccaa tctgtgtgcg tgtgggtgcaa tagcccatte 120
cagcatttcg gcaccgtcgc tgagcagcag gcagattcac ttggttacat ttgcccgtcg 180
tgcaagggaa agttttctgg tcatcttggc attaacggtc catctatttg aaatcagttt 240
cttgtaacct gaactgggtgc tgctgcccc ccatcaattt atagtctagt tgatatgaat 300
acgtttgtac ttgtagtatg ta 322

<210> 52530

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A12

<400> 52530

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gtggagccaa ggtgggtgagc gaggcggtgg ccaattccgg cgccctcgccc ctgtctccgg 120
cgatcacctt catcttggac aaggctgcac cgtacatccc caaggaggag cccaaggcgg 180
aggacgcggt ggctgaggcc acttcccggg aagtcgccgt ggaggtggag gatgccgagc 240
cggctatagc tgatgcagcg gccgagacac catcggaggc gaagaaggga gaggaggaaa 300
agccggctgc cgaggaggcg ggcgccaccg cagcggctgc tactgaggag aagtaatact 360
ccgatccaca gccatgcctt ttcctacgta gctgcagcag agtgaaaagt gattcagtca 420
gt 422

<210> 52531

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G7

<400> 52531

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gggggtgccc ccggcctgca gggactgcgt caagtccagc ctcagcgccg acccgccggt 120

gtaccagtgc atggaccgcg tgcccgactt ctgcctgcgc cgctgcaccg cgcccgccgt 180
cgccgcgcgg tgaccaggcg actggtttct gcttgctctt gagtcttgac ccaccacccc 240
accaccaacc gctgcagcct ttcgtccacc cgaccgacgg cgaatcgtgt cgtatgaact 300
ctgagccaca ctgtggatta ggttttttct tagttgatgc cgcattggaaa gagaggctgt 360
gagagacgac ggatgtgcaa tctgatgagc gaacaaccga ccaaaccaac cttggacgct 420
gt 422

<210> 52532

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F2

<400> 52532

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gacgtcaagc cgcacctgct cgccgacgtc gatgtgaagc cgctgcttct tctcccgccg 120
ccgctccacc ccccgggcta cgccgcgctc gtgcccgtga agaccgagga gcccgtgccc 180
gtggccaccg tctcgtcacc gccagggcg ctcccgcgc cgcgctctg ccgccagttc 240
tggaagtccg gcgactacgt cgtcgcgcgc cgcaaccccg atgtggccgg ccccggtggg 300
cggaaccggt tgccgataaa cccaagttt ctgcactcca atgcgacttc ccacaagtgg 360
gcttttgccg ccattgccga gctccttgac aatgcaatcg atgaggtgaa caatggggca 420
acatttgctc gtgttaataa atttaaaaac ccacgagatg gg 462

<210> 52533

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F3

<400> 52533

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ccctgcaggc tccagctaac tccaaactac cctctggttc gactcgcggt cgcattcgcaa 120
gcagcagcgt accatcgagg caatggcggg gatggccgaa gtagtgtcga ccaccggcgc 180

ggcgctccgg agccccggcca cgcagcagcc ggcgggcgggc ggcgcgggcga agggcaccga 240
 cgctgagaag ctccagttca tgcaggacat gacctccaac gtggacgccg tgcaggagcg 300
 cgtgctgggg gagatcctcg cccgcaacgc ggacaccgag tacc 344

<210> 52534
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-F4
 <400> 52534

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 tcacagcatc atcgctcctc gagatcctgt cattggttat cttgaaagat acaaattaca 180
 tcagcacgct tgcacaggg ccttatggtc tcatatttgc ctcttttgtt cccttctttc 240
 ttgacattcc aatcacatca cggttccgta tttttggtct gaatttcagt gacaaatcat 300
 tcatttactt agctggtttt cagcttcttt tatcttcttg gaagcgcctc cttattcctg 360
 gtatatttgg tctggttgct ggttctctct atcgtctaaa tgtgctcggc atccgcaaga 420
 tgaagcttcc acaggttatt tcatcatttt ttgc 454

<210> 52535
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-F5
 <400> 52535

aaaaaaaaa aaaaaaaaaa aaaaaataa ttaaaaaaaaa aactaaaaaaaa aaaaaaaaaa 60
 cgagcgtctt ttctaagagg ctccatgcat tacttacgca tgcttgcaac ttcgatatctc 120
 ttctatcgca tcaccttaat tcaattcaat gcccgcatth ttacaacttc aagactcgaa 180
 aaacctttgc gttcccgaat taaatcctct tgggtgaatt tctcctttca acagttacct 240
 taatttcgaa attgccatca catcacggct ttgcctacaa gggctcaacc tgaatgacaa 300
 atggtacacg cacttaactg gtccttaa atcgcaacatct ttactgatta ccccatcat 360

gcccgggtaca tttgcc

376

<210> 52536
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F7

<400> 52536

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gacttatgtt ggttttcagg ctgtaatgac cgaggaaatg tcagaaaaat ttcgcggttt 120
gcctggagta gttttcattt tgcctgattc atatctatat ccagaaacaa aggagtacgg 180
aggagacaaa tatgacaatg gtgtcatcac tccaagacca ccacctgttc attatagcag 240
accatcaaga actgacatga accgtaacta ccgaggaaac taccaggatt gcccttcaca 300
gcaaggaaat taccagaaca accgtccttc accagaaagt gggtaccaga acaaccgcgc 360
gcagcaagga aactaccaga cataccgcgc gcagcaaga 399

<210> 52537
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F8

<400> 52537

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gacttatgtt ggttttcagg ctgtaatgac cgaggaaatg tcagaaaaat ttcgcggttt 120
gcctggagta gttttcattt tgcctgattc atatctatat ccagaaacaa aggagtacgg 180
aggagacaaa tatgacaatg gtgtcatcac tccaagacca ccacctgttc attatagcag 240
accatcaaga actgacagga accgtaacta ccgaggaaac taccaggatg gcccttcaca 300
gcaaggaaat taccagaaca accgttctac accagaaagt ggtaccagaa caaccgcgtc 360
cagcaaggaa actaccagac ataccgcctc cagcaagatg gaagaggcta ttccccacag 420
cagaattatg cacaaggtgg tca 443

<210> 52538

the first time in the history of the world, the people of the world are now free to choose their own government, and to elect their own representatives to the United Nations.

<400> 52538

<210>	52539
<211>	345
<212>	DNA
<213>	Zea mays

<400> 52539

<210>	52540
<211>	434
<212>	DNA
<213>	Zea mays

<400> 52540

22507

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 cagtgcctct ggaaaagaga ttatgctggc gtcaacacgg ctgcacaggg gttcgagtgg 300
 ggtcctgacc tcgctgactt catcactgcc ttcctagaga gctacagaca gaggatattc 360
 aagctgttga cttctgcata ttccacaatt agagttgctg atgtgggtca tttcatggng 420
 atgagtgagg agga 434

<210> 52541
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-G12
 <400> 52541

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 cgcaggagcc tccaccgggg taccagggt acttcaacga ccagcagcgt cttactacc 120
 cgccgccgca tggagagcat caacacaacc accaccaggg aaaccagggt agtcctctg 180
 ggttcctcaa aggatgtttg gctgctctct gctgctgctg cgtgctggag gaatgctgcg 240
 gctgcttctg agacgtgaga tgtccgggaa tccgatcgca agttatcgtc gctagcattc 300
 gggagcacc cagttattat catataatag taactgtgct tgtaaataat ctggagcagc 360
 agtgttcatg agtcccagc cccgcattta tattctcata attttagta cgttctatga 420
 tttatccgaa aataaaggac tctatatatg g 451

<210> 52542
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-G2
 <400> 52542

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 ctgacgagga gtcgtcgatg gatcttggtc tgagctttga tctctgtctt ggtcatgaca 120
 ctgcacatcg tcacaagaag ccacggcag gtgctccgaa gttggacctt cagttgagcc 180

tgtccacctg ttgcctgaa tcagccttga ccaatgtaag tgccaatgat ggcttagaga 240
cagtggcaga tactactact actctggaaa agctagagcc ctggatcttc aggaattaca 300
tggtttcatc atcatcatat gcatatgctt ctgaaacaac ctacggcctt tctttgccaa 360
agatacctga agatgtcgtg gtcgtgcctt caacaacaga cgtgtcatca gccgttacgg 420
tgagcgtgaa aaagcccgtt ccgaaacgga gcaatatt 458

<210> 52543

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G3

<400> 52543

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aaaaaaaaaa aaaaaaaagg agggaaaaaa aaaaaataa aaaaaaaaaa aaaacaaaaa 120
actaaaacaa aaaaaacgct gccattttt 149

<210> 52544

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G6

<400> 52544

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gagccccctt tcaagggtcaa ggggctctgg ctcttcaggg gctcagaaat tcccaagttt 120
gtcatggacg aagtctatga catggagctt tatgagtga ccaagggtga cctctctgat 180
gaggcacaga aggagcgggt caatgccatg attgaggacc aggagccatt cgagggcgag 240
gccttgctgg atgcaaaatg cttcaagtga ggaaagagtt tttgggtcca attctaaaac 300
agccatggat gatagctttt gattatgcgt gctgggttatg attatgctgt ggagtttttg 360
ccatgttaac gggaggtcgt gctcgcgaaa cttctgcat tatcgcatcg gaatcgtttg 420
tcatgtgcat cctagtgaat agatatatta tgaaaatat 459

<210> 52545
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-054-Q1-K1-F12

<400> 52545

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 ggcagggcgc ccaccgatcg accttcacgc cagtctcggt ctcttccgaa ggcgtcgcgc 120
 gcgggtgttt gagaggagag gaggaagatg agggagtgc tctccgtcca catcgggcag 180
 gccggcatcc aagtccgcaa cgcgtgctgg gaactttact gcctcgagca cggcatccag 240
 cctgatggcc aagtgcctgg agataagacc gcgggacatc acgatgatgc cttcagcacc 300
 ttcttcagcc agactgggtgc tgggaagcac gttccccgtg caatcttcgt tgatctagaa 360
 cccactgtga tcgatgaggt gcgcactggc acgtaccgnc agctcttnca ccctgagcag 420
 ctcacagtg gcaagga 437

<210> 52546
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-054-Q1-K1-D7

<400> 52546

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 ggtgctgatt gatgaagaca gtctcttgac tgaggaggac ctgaagaaac cacaacttcc 120
 agttgttggg gactgtgagg tgggggcagc aaagaaagca tgcaagaact gtacttgtgg 180
 cagggtgag gccgaggaga aggttgggaa gctggagctc actgcggagc agatcaataa 240
 ccctcagtca gcttgtggca gttgtgggtt gggatgatcc ttccgctgtg gaacctgtcc 300
 tacagaggtc ttccaccatt caagcctggc gagaaggttt ccttgtctgg caacttcctt 360
 gctgctgaca tatgatggca tcgccaacat cggcaaaaaca aggagacggn ggtacctacg 420
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<210> 52547
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-D9

 <400> 52547

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 gccgctgggc ggctaccctg gccctcaggt agattagatg gatctgcgtg cctccaggct 120
 ccagccatat cgatggcttt gatcagctga cggaatgac ctggcaggga cttactact 180
 gcgccgtcgg agcggacaag tcctacgggc gggacatcgt ggacgcgcac tacaaggcct 240
 gcctctacgc cagcatcgac atcagtggca tcaacgggga ggtcatgccg gggcagtggg 300
 agttccaggt cggtcctgcc gtcggcgtct cggccggcga ccagctctgg gtggctcgtc 360
 acatt 365

<210> 52548
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-E1

 <400> 52548

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 tgggggtgtaa gagagtatga tatgcatagc tatcattcgt ttaaccataa tctatttaac 120
 ctcccactga atcctacgtc atctatccct gttggaaacc tggtaatcat cgttgttgat 180
 ctcaaaaatc ctcaactatt gcttcctatt tcaggaaatc ctattcattc cattaaaggt 240
 cacttgatt tctcctttgc tccgacttgg agcccaaagt gcctaact acccacatgc 300
 aaccaagac 309

<210> 52549
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-E10

 <400> 52549

cccacgcgtc cggcagcgcc tcttctctgc accaccaccg tcactcaaca cagcacaggc 60
agctcgagag agagagagag agaaagatgt cgtgggttcgg gcaccaccac cacaaccagc 120
cggctccccc ggcgtcgggc cccaaccagg tgttcaagat cttctgccgc gccaacgaga 180
actactgcct ggccgtccgc gacggcgccg tcgtgctggc cccgggtcaac cccaaggacg 240
accaccagca ctggtacaag gacatgcgct tcatcaccgc ggtcaaggac gaggaaggca 300
tgccggcggt cgcgctcgtc aacaaggcca cggggctcgc aatcaagcac tccctcggcc 360
agtccacccc ggtcaagctc ggccttttc 389

<210> 52550
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E11

<400> 52550

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gcctggaatg gttgtcacct tcggtccaac tggcctgacc actgaggtga agtctgttga 180
gatgcaccac gaggtctctc atgaggccct tcttggtgac aacgttggct tcaatgtgaa 240
gaacgttgct gtgaaggatc tcaaactgtg gt 272

<210> 52551
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E12

<400> 52551

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cgcaggcatg gaggggaagg aggaggacgt ccgcctgggc gccacaagt tctcggagcg 120
ccagcccatc ggcacggcgg cgcagggcac ggacgacaag gactacaagg agccccgcc 180
ggcgccgctc ttcgagcccg gggagctcaa gtcttggtcc ttctaccgcg ccggcatcgc 240
cgagttcgtc gccaccttcc tcttctctca catctccatc ctcaccgtca tgggcgtctc 300

caagtccacc tccaagtgcg ccaccgtcgg catccagggc atcgcttggg ccttcggcgg 360
catgatcttc gccctcgtct actgcaccgc cggcatcttc ggcgggcaca 410

<210> 52552
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E2

<400> 52552

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cctgcctggc gtgactgaca cttgggtcga catctgggct gcacagatca tgcatcactt 180
caagcaggag aaaggctgat cacaatttct ttaaactctg agttttgcga taactacagc 240
aactgtgcta gaacttttta gatttgtatt ttagggataa cataacaaac attaaatagt 300
tttgaaata ttcattaggt taggtctccc ataatgctat agtgatgcac aaaactaatg 360
ggcaccacac cgaacatcgg aacatcccag tgctggagtt ttcaaataag gtcctcttta 420
aatctgtagt gtttaaataa aggtttggta gagtttctct 460

<210> 52553
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-054-Q1-K1-E3

<400> 52553

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gtccgcgggg tttgatcccg aaaccctaac ccacatcccg gggccccaa tctccttcga 120
ctccgacccc gacctccgcc acctctctcc ctcgctgacc tgctccccgc ccttctgggg 180
ctgcctcgat gacgccgcta gcttcgagtg ggaggagatc gcggacgctg ccctcggcgt 240
cggcggtggc gctggcggcg ccggaggggg aggacaagga ctagaaggag acgccgatgc 300
cgacgccgac gtgttcgggt tcctcgacga gcgggagatg ctgggcgtga tggagggcat 360

cgacagcggg gacgacgact cgatcttctn cgatgagcct ccgtttgact tcggcgatgg 420
cgacacggag ct 432

<210> 52554
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E5

<400> 52554

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gaccactgct gatggttact cgctgtgctc caaggagatg accaagctct ctggtatctc 120
ggacatcatc ccagagatgg agatctgtga cttcgacttc gagccctgtg gctactccat 180
gaatgctgtt catggccctg ctttgtcgac cattcatgtg accccagagg acggcttcag 240
ctatgcaagc tacgaggtca tgggctttaa cccgggctct ttctcttatg gtgacctggt 300
taagaggggtg ctgaagtgtt ttggtccaac tgagttctct gttgccgtga ccattctcgg 360
tgatcgggac aatgcgaaga cctgggggac gaaactggat gctgaggcct atgcttgtag 420
caacatggtt gagcaggtgc tgccgtttgg tg 452

<210> 52555
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E6

<400> 52555

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agcttactga atttagtgac acaacaatcg atccatctct tccgaaacct gcatttcaag 120
ttgctaggaa ggctcagggc tcagtgggga aggggagaga aacgactgca gttgaaatga 180
agaaggggtga ctggttgtgc actaactgta acttcttaaa ttttgctcgc aatcgctact 240
gtctcgaatg caaagcagat ggaccaaaga agatagaagc ggccgtggat gcaatgaaaa 300
tgggcgattg gatctgcaca cagtgtcagt ttatgaactt ctctcgcaac aagatatgtt 360
ttaaagtga agaacctcac ccgaagaggc aactcaatcc tggagagtgg gaggccccct 420

catgcgactt tgtaaacttc cgacgcaacg c

451

<210> 52556
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-E8

<400> 52556

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ccgagctccc cgctccctatc gcccgctcttc gccagctcgc ccgcgctggc cgctctgacg 120
acatcgacgc gactctcgcg cccctgttcc cttcccaccc cgctcgccgc ctctcgggccc 180
tctccacgct gggcctnccc gaccgcgcct ncgctctgct cggcaccatg acgtcgccca 240
ataccgcgca cctgaacgcg gtctctggtc cactctctcg ccgncgncgc ctggccgggc 300
tcgtgccctc aatctctgcc gcgcatgcct ctgtcccgcg ggacgccgtc acggacagca 360
tcctcgccaa gtcgctct 378

<210> 52557
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E9

<400> 52557

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ggaccttcca ttgaatgttt ctctgtgagat tcttcaagaa agtcgaattg ttcgtataat 120
gagaaaaagg ctggtgcgga aagcctttga tatgatactt ggcatttctt gcagtgaaaa 180
tagagatgat tatgaaaggt tctgggagaa ctttgaaaaa tttttaaaagc tgggtgccat 240
ggaagataag gaaaatcaca agagaattgc tcctttgttg cgcttcttct cttctcaaag 300
caacaatgaa ttaattagct tggatgaata tgtggaaaac atgaaacctg agcagaagga 360
catttacttc attgctgcag atagtatgag cagtgccata aatgctcctt tcttagagag 420
ac 422

<210> 52558
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-F11

<400> 52558

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gaacgcggac ctgtgcagga tcatcaactc tgacnaggtg cagtctgtgg tgaagccact 120
caacaaggaa gtgaagcgca tggagaagag gaagaaccca ctcaagaaca tggctgctgt 180
gctcaaactc aaccctacc tcggcactgc ccggaagatg gccacccttg ctgaggctgc 240
tcgtgtgaag gccaaagaaag cgaaactcga ctccaagaag accaagctta ccccgagac 300
tgccaagggt aaggctgctg gcaaggcatg gtacaagacc atggtctcgg acagcgacta 360
caccgagttt gagaacttct caaagtggct cggcgtgact cattgagcgg caagggtta 418

<210> 52559
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-C1

<400> 52559

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gcggtggtgg ttatggtggt ggcggacacg gtggagctgg ggctccgagt gcctgggatt 120
gatgttacag ttgctcccaa gtagaggggt ctgccaagtt taggtcactt tttactctag 180
ttctatttag gtatacatTT ttggtaggag ctgttataca gcaacaagta caaggtgaat 240
gtggtcaccc cctttcttct tctggttgct actggctgca gtcttaatct tgcagatgtt 300
cattacgaag agggctctga ggacattcaa gcacacgaga ttcctagtta ggtgaaattc 360
cttggtaggg atagtagcta ggctctgaca agtagtgctt ggtgccctnt gctctttttc 420
cctttgtcag cgtcgaattt tggtggtc 448

<210> 52560
<211> 409

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-C10

 <400> 52560

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 ggggtgggtct atggggcctt ggctgcagct gacctgcata aggctgtaga gaaagagtat 120
 gagatggctc ttcaagacag agtaatggaa gaaacaaagg agaagaagaa tgctgttgaa 180
 gcttatgtgt atgacatgcy taacaagcta tatgacaagt acagtgattt tgtcacacct 240
 gaggacaagg aaggtttgat cggtaaactt caagaagttg aagactggct ctatgaagat 300
 ggcgaggatg agaccaaggg agtttatatt gctaaactag aagaacttaa aaaggctggg 360
 gacccatttg aggtgcgctt caaagaatgg gagattagag gttctgctg 409

<210> 52561
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-C11

 <400> 52561

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 gtgagaattt gatcaagtca tcagagaagt ccgaaccatc tggcattgaa ggctcggaca 120
 ttggtaccga cactgaaaca gaagatgata catcagaaaa ggagaaatct gattcacctg 180
 tagctgacaa gctgggtaag tcgaaacgtg taacagatgc agaaatcagt aatcctgctt 240
 ccaaacccaa gaaaaatgat actggcctgg ataggactat atttattagc aaccttcctt 300
 ttgatataag taatgaggag gtaacagcgc gtttctcagt cttt 344

<210> 52562
 <211> 145
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-C2

 <400> 52562

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gtgagcataa tgctgtatat acaagcgtat cgtcttctct gattattata tatacatggt 120
atatatatat agatgttcca gctgc 145

<210> 52563
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C3

<400> 52563

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tgcgatatta ttttaacttg caatattttg tatataggtc attgatctgg caacttctct 120
tgcaaaagtt gcggatgtgg atagaaatct tggtaacgaa agtaccgcag ttgagggttt 180
tgaggaagca attcgatgcc ttgagaagtt gaagctggat tctgaacaaa ctaccctcga 240
acagcggcgc ctctcggttc tcgacttcct gcacaaccag ttggccgata agtaagacat 300
agtcttctcc taagaaggca ccaccagcag atatctctc atggtaatgt tcaactctac 360
tacataaagt tccctttgga aagagttggt ctagaagcag cgatgagtgt gtgtttacca 420
tcgtttgaaa ctttgtcacg gcacaaaat 449

<210> 52564
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C4

<400> 52564

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atggagaagc caatggttat gctcttaggt caatattcta ctggtaaaac aacttttatc 120
aagcatctgc taagaacaag ttatccaggt gcccatatcg gaccagagcc aacaacagac 180
agatttgtag ttgtcatgtc aggatctgat gaaaggacta ttcctgggaa tactattgct 240
gttcaagctg acatgccttt tagcggctctt acaacatttg ggactgcatt tttatccaag 300
tttgagtgtc ctcaaagtcg acattcactg ctagagcata tcacatttgt tgacacacct 360
gggtgtcttt cttgtgaaaa gcaacgcaca cagcgcagct atgatttcac tgggtgtgaca 420

tcat

424

<210> 52565
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C5

<400> 52565

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tacgatttta taaacacata catacaacaa aaataaaaaat tatctattct cactcctgct 120
caattctctg tccctccttc tacaacgtct ttacttttaa atccttcccc ctaccacct 180
taatcggttt cccttccatc cccctttaac ctgctgcaat attctcaaat aactactcac 240
ttacctccct tcccatcagt ttttcaccct ctttcccaat tggtaactcg cctgtaccat 300
ttcatttacc tctaactctc taatgcctac tcgcatcttg acatttccat tttcctatgc 360
cctacttccc tctccttt 378

<210> 52566
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C6

<400> 52566

aaaaaaaaa aaaaaaaaaa aaaaaataaa taaaaaaaaa aaaaaaaaaa aaaaaaaaga 60
agaatatatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa ataaaaaaaa ataaattcaa ataaccaaaa aataaacaaa aacaacacta 180
ttaaaaaaat aaaaataaac aaat 204

<210> 52567
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C7

<400> 52567

tcgtgcaaaa agattagccc aaggccatca tataaaggtt gaagtcagta ctacaatgcc 360
gatccaagtt gatggagagc catggtccca ggagccggga accatagagg tttctcatca 420
tagccaggcc ttcattgctta 440

<210> 52570
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D1

<400> 52570

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ggaatgggag gcctatttgc cgctcttctg gcaactggta ccgcccagtg aagaagactc 120
gcctgaggct tgtgcagagt ttgagagagt acttgccaag caagcaacca cccaattgtc 180
tgcaagtga tcgaatcaga ctacaggaag gtggtaggtg ttttctattt gacacaaagt 240
gatctcatct tatcatttca agaaaatcga agaccataac cggcgctctg aggcaccgaa 300
gtgcccgtct gaagactgca actttgtgga ggctctgccc aagccatctt tttgagttga 360
gctaacagaa ccgaggggtc ttctcgacgc tcgtgcacct aggtaacccc tgtaaattgg 420
tttgctgacg ctaggctgca 440

<210> 52571
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D11

<400> 52571

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gtgacttatt gttggtcaaa tgtatgaagt ttgagttttt aaaatctaata ccgcctagta 120
aaaatgaact gaaggagtat ctctgaaaaa ttgcagcttc aaaatcacgt actagatggt 180
catgagcttt tcatagaaga ctactattca tacatattat gttcccatatc ttgtttcacg 240
attatccttg cagccattca aatgttgatg ccctgtactc tttatggagg ttacaaaccg 300
tatagtcaaa cttatatgtg tcaagtttgt aagggttttc atggaaaatc tgaattgtat 360

tgacg

365

<210> 52572
<211> 241
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-D12

<400> 52572

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aaacatatca cacaaagacg agttaaattt ataaaaaaaa aaaaaccaac cactaatngt 120
tctgccttcc taaagaacca aatcttactt cccctttcat ccaacataat aactattcca 180
tagtgccacc caaattaaana aaactccccg aacatttaac aacattaata acttaaaaaac 240
c 241

<210> 52573
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D3

<400> 52573

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ggggtcgggt tcgtgggtga gcggatcgag atggcggcgt cggatgttga gtaccgctgc 120
ttcgtcggcg gcctcgcttg ggccacggac gaccactccc tccacaacgc cttcagcacc 180
tacggcgagg tcttcgagtc caagatcatc ctcgatcggg agacgcagag gtcccgcggc 240
ttcggcttcg tcaccttctc cacggaggag gcgatgcgga acgcatcga gggca 295

<210> 52574
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-D4

<400> 52574

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gatgataaga cattccagca catggcatct gtgtatagtc ggtctcacta taacatgtct 180
ttgagcaaag aatttgaagg agggataaca aatggagcat tctggtaccc aatatatggt 240
ggtatgcaag actggaacta tatacatgga ggctgctttg agttaactct ggagattagt 300
gacacaaagt ggccaaaagc agatgagctt nctatcatct gggaacacag taggatgagt 360
atgctcaatc ttctagcaag cctaataaag gccattgagc gacgaggaac gccgtgtcac 420
ttgcaatgac cagagacggg aggtcttcg 449

<210> 52575
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B9

<400> 52575

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gcccggcgcg cgcgcattca caagcttcta gacgttccga ggaggagggg aggtacccgc 120
cgccgcagcc atggcgctga ctaaggtcca gcgtatcatg acccagccca tcaacctcat 180
cttccggttc ctacagagca aagcgcgcac ccagatctgg ctcttcgagc agaaggacct 240
ccggattgag ggtcgcatta tcggattcga tgagtacatg aacttgggtcc tcgaagacgc 300
tgaggaaatc aacgtcaaga aaaactag gaaatcactt ggccggatac tcctcaaagg 360
tgacaatata actttgatga tgaacagtgg caagtgaaga ttcttatggc aggaacgatg 420
tttggtgctc g 431

<210> 52576
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A2

<400> 52576

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acctgttccct ccggttggtg catttgccct gggatcactg ggcttcatga cgcctttccc 120
aagcgagcaa taccgtgagt tgttggaaca tgtgctgaat gggccattta gcatcacgct 180
gagaaaccgc atacagtgtc atgtaatacg tgacgaggca aaggatgaaa tcgtgtctga 240
ggagccattc ttagtggtga acgaagttac aatcgaccga ggaatatcat cctaccttac 300
caacctggaa gtctactgtg acagctcttt tgttacttgc gtacaagggg atggactaat 360
catatcaact acatctggaa gtacagcata ttcattagca gctggagggt ccatggttca 420
tcctcaggtc ccagggatcc ttttcacccc aatc 454

<210> 52577

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A3

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tacggatgat gatgaaaacc gtgtaagaaa actgttcagt gccattggaa aagtctggac 120
agctgaagag aaatatatttg atgctgtaac tggctcagtc ggtagtggcc cggcctatat 180
cttcctagca atagaggcca tggctgatgg tggagtgtc gctgggcttc ctcgggacct 240
tgcccttggc cttgcatctc aaacagttct tggctgtgca actatgggtga gccagacagg 300
caaacatcca gggcaactga aagatcaggt tacttctcca gcaggacta ccattgccgg 360
gattcaagag ctcgagaagg ggcattccg ttgaacgctg attagtgtc ttgt 414

<210> 52578

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A4

<400> 52578

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ccacgcctcg tcggcgccgt cgtctgtgac agcgatggcc tccccgacc tgctcttcaa 120
tctgcggaac ctcttctacc tgggcgccta ccaggcagcc atcaacaaca gcgacgtccc 180

gggcctcgac gccgacgccg ccgctgagcg cgacgccatc gtcttccgct cctacatcgc 240
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 ggccgtgaag ctgctcgcgc tgtacctcac tggagacaag gaagggtgcta tctccagtct 360
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 aattgtatth atgcatg 437

<210> 52579
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A6

<400> 52579

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 ccctgcggcg acaagggcta ctacatcgag cccaccatct tcacggacgt caaggacgac 240
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 gttgaagagg tgatccataa agcgaactac acccggtacg gcctggccgt cggcatcgtg 360
 accaagaaca tctacgtcgc caacaccgtg tcccgggtcca ttcgcgccgg ctccatctgg 420
 atcaactgct acttcgcg 438

<210> 52580
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A7

<400> 52580

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 cgggaaagat aatggcaacg atgatcgccg cgatgcgcgt gctgttccgc gcgctgaacg 180
 acccggtgat ggacacgctc atggccaccc gcacgtgccc gcgctcctgc cgggccttcg 240

caatgtttac atccttgacc atcttggcta gtgtaataat gttcaaggat tgggatcgtc 420
 aaaatc 426

<210> 52583
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B1

<400> 52583

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 cgaaaaatct tgtccgctta cgagaaatat tctgatgctg taactggctc gagtggtaaa 180
 gacccgtcct atatcttact agcattagaa gccatggcta atggtagaga ttctactagg 240
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 tactaccatt g 371

<210> 52584
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B10

<400> 52584

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 gactccaaga agttcttgaa agttcacgtt gaggctgacc atatcgtcgc ttggttgaag 180
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 caatgagcct ggtaatgtgg ttgtcgctga caacgtgcac gacttcgtct tcaaatectgg 300
 caaaaatgtc cttattgaat tctatgcccc ctgttgcgga cactgcatga agctggtgcc 360
 catcttggac gaggcattca ccactctcca tagcgacgag gaagtcgtga ttgcta 416

<210> 52585
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B11

<400> 52585

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 gtacttccaa ggatcaaaga gaaaaggata atgtctatca agccatttgt ggacagattg 300
 gggatatgata atgtaccaac agagattaac cggctgagat gcagagttaa ctatcatgca 360
 ttaaagttcc tacctgatat tgaggaaatg gcttgtaagc ttgctgcaag aatgaggaac 420
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<210> 52586
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B3

<400> 52586

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 ggctgggtggc caggggtggcc ctgcagagcg acgacgtcga gctcgtcgcc gtgaacgacc 180
 ccttcatcag caccgattac atgacctaca tggtcaagta tgacactgtg cacggacagt 240
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 atgttggtga gtctactggt gttttcactg accaggagaa ggctgcagct cacttgaagg 420
 gtggtgccaa gaaagttgtc atttctgct 449

<210> 52587
 <211> 446

<400> 52589

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gtcccccctcc gtcctccgaac ggctgatctt tgcattggcag cagcagctgg ctccaagggg 120

cgggcgatcg ctggaagctt cgtcagccgc gtcctcgccg gcaaggccgc ctccgccagg 180

agggccgtgc acgcctcggc gtacgacaag aacctggaag accaagtgcg cccggcgcttc 240

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a 301

<210> 52590

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F7

<400> 52590

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gcacgtcgct acatcaaaca tggcccattt atacaggag cagagccacc cctacaacaa 120

ccaaagccac aacaccctca ccaactcaac caacatccag tacactcagg ctatcatgaa 180

ccactagcta acgaccaacc catgacaaca taaccaacta aaccttgaac gatgcagcag 240

cacctactaa cagtctcgct aaaactacat ccaatcttaa acctaccaat ccgccaacta 300

aaacaggatg cccatccaaa cagcttaacg gaactaactt tcaataagga cacaataaaa 360

ttcgccaaaa aactccaaat aaatcctccc aa 392

<210> 52591

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G1

<400> 52591

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agaaaaaaat aaaaaaaaaa aaaaaaaaaa caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaca aaaaaaaaca aaaaaataaa caacaacaaa aaaaagggcc 180

accgactacc aggtcccccac gaacatcccc catcatcaa

219

<210> 52592
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G11

<400> 52592

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gagtcccccg acctgcgaga tgtcgttggc caggtccgac tcgttgacga cggcctcgaa 120
ccccacctcc tccgcggccc ggaccacggc gtcgaggttg aggagcaggc gagtgcggtg 180
gcgcgagatg accagcagcc ggggcttctt ccccggtgccg tcgccgaggc gcgtgggcgc 240
gtcccgggtgc agcgagagcg cgcgccggag gaaccgcgtg aagtccggcg tggcgagccc 300
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<210> 52593
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G12

<400> 52593

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gtccgactcg ttgactacgg cctcgaacct cacctcctcc gcggcccga ccacggcgtc 120
gaggctgacg agcacgcgag tgcagcggcg cgagatgacc agcagccgat gcttcctccc 180
cgt 183

<210> 52594
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G2

<400> 52594

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 tttcgttatc tgatgctgat tctttaaaaa aaaaaatgat aaatcggggc cttaatttag 420
 ggtcctattt aaaggtttaa ggct 444

<210> 52597
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G5

<400> 52597

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 ggcctcgcct gggccacgga cgaccactcc ctccacaacg ccttcagcac ctacggcgag 180
 gtctctgagt ccaagatcat cctcgatcgg gagacgcaga agtcccgcgg cttcggcttc 240
 gtcaccttct ccacggaaga agcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc cgaacatcac cgtcaacg 328

<210> 52598
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G6

<400> 52598

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 tggttcaatg gtgctgccta tgtttacgac cattttgtcc ggtcaatgtt tgtgaaccgt 180
 caaatagtga acatatggta cattccaaga aatgagaagc taggtaaatac tgatgatgtt 240
 ctgtcagctg cagagagata tattgaacaa aac 273

<210> 52599
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G7

<400> 52599

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aagaaaaatt ttaaaaaacc tattttctaaa tccca 95

<210> 52600

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G9

<400> 52600

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ggaaaagaaa aataaaaaaa ttagagaaaa cccaaccc 98

<210> 52601

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H1

<400> 52601

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gagcgagcga gcctcttgcc tgccgctacg agccaacgac tcgaacgcat aactccaat 120

ggcagcgacg gtgatggcct ccatgagccc cctcgctcc gccacccccg gcgcgcgtcg 180

cgctttccct gtacggctgc tgctccaggc atctgcgctc gcgccgcgcc ggcgcgcctt 240

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<210> 52602

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H11

<400> 52602

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<223> unsure at all n locations
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<400> 52605

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ggctttcaag aagcatgtaa ccagccttgc tgcgctggac ttcttggtat gcctgaagtc 120
ggacgtgttc gtcatgacctc acggcggcaa ttctgccaaag ctgatcattg gctaccgtcg 180
ctaccatggg ccgcacatgc tcaagtcaat caagccggac aagggtctca tgtccaagtt 240
cttcggtgac ccttacatgc cgtgngcgac gttcgtggag gacgtggtga taa 293

<210> 52606
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H4

<400> 52606

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gggtgtgacc gagatggcgc tgccgaatca ggggaccgtt gattaccca gcttcaagct 120
cgtcacgctc ggcgatggtg gaactggtaa aactacattt gtgaagaggc atctcactgg 180
agaggttggg 190

<210> 52607
<211> 147
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-053-Q1-K1-H6

<400> 52607

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tcatccatt aatttcacca ctaacta 147

<210> 52608
<211> 291
<212> DNA

aaaaaaaaa aaaaaaaaag aaaagaataa aaaaaaaaaa aaaaaaaaca aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggtc actccctttt 180
 aaaatatcca aacttaccta cccttacatc caacttaaaa cttttt 226

<210> 52611
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E1

<400> 52611

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 ctaatttata gtgacagcta aatgcatttc actggccgga cttgtacaac gttgggggttg 180
 ccaaaccat ggggttacca aactaaatcg ctttgacaa cttccgtctt tggcaagatg 240
 ccgtaataga tagga 255

<210> 52612
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E10

<400> 52612

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 caaaggaatc aaagggtcatg gctaccatga tgaattggtc attcctatta ttgagaatac 180
 cccttatgag tatgagctca ctgactccct aagtgaggcg attgcagcat acccaaaggc 240
 aactgctgtg cttgtaagga accacggaat atatgtatgg ggggagtctt ggatcaatgc 300
 caagacacag gctgaatgct accattatct tttagatgct tgcacaaagc tctatcagct 360
 aggtattgat tggacaaccc ctgaacatgg ttcaataaac 400

<210> 52613
 <211> 384
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E3

<400> 52613

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gacgagggct cagttgttgc gtttggatgg atgggttttg ggagtctagg gtttcttgac 120

cgaggaacat cagacaaagt aatgaggccc cgcgttcttg agagcctgca ggatcactac 180

gtctcccaaa taagcaccgg actggatcac actgtcgcag tgacaaataa gggcattgaa 240

ttcgggttcg gggacaacga gcgaccccaa ctggggcagg agtacattcg tgggtgctta 300

aaacctaccg ggataatgtt ccaaaggagt ttcgaagact taccaattgc ggggcctatg 360

ggttgacctt aaggccaaaa ggcc 384

<210> 52614

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E4

<400> 52614

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ctggcccctt acttctcaga gtgcattaca tctgaggatt tggatgacat gaatattgag 180

attatgagga aactctctta caaagcatat cttgaggact tctacaaatt ttgccagaaa 240

ctaggtggtg caacagctga gatcatgtgt gatctccttt catttgaagc tgacagaaga 300

gctgttaaca ttacaataaa tagtattggg actgagttga caagagatga ccgcaggaag 360

ctgtactcca actttggtta atggaatcca tatggccacg aagaattggc cgttggtgaa 420

gatgttgacc agtttcgt 438

<210> 52615

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E5

<400> 52615

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ctaatacacac ttacatatata aaaaatcatt atacaaacat acaacacatc cacaatcata 120

aacatacaat actaaaacca ccaaa 145

<210> 52616

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E7

<400> 52616

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tttcaaaggt gtggcgccccg accacataaa ctataacaaa aaaaccactc tagaccaag 120

aacaccaaac aaaataatca acccccaaac tcacgacaac caccacaatc actacaactc 180

ccaaataaac accgaactct atcacactta cacacagaca aacaaacgca ttccattcac 240

caacacacac aaccaaccag cacaactaat ccaataccac aaccaacacc actcaaaacc 300

taccgagata accatccaaa aaacaatcca atacatacca 340

<210> 52617

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E8

<400> 52617

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caatcacatt aatattgaaa atattataaa caacatctac aaaacaaatc tttaagacca 120

ttacaaatac taccacaaac tatcatatcac aacaacacac atcaaattctc aactactttc 180

aaattaaact cacataataa ctcttaacaa tacaataaat aacatagaca ccaaaatcac 240

a 241

<210> 52618

<211> 369

<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-E9

<400> 52618
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 gtgcggcttg aattaccact tgctctcaac cgtaccactt acaagggtcg cctctcaagc 120
 ctgatatcca tcgcacaagc cctgcgtggt gcagcccggg ctaatcagaa acccctgctc 180
 tctcttcgcg ttgagggtcc agtttccttg tctctgactc cttccatgtc tcccaaggac 240
 aagctcaagc tcaaacggtt ggccccaggc caagtggagc tctctcaca ggcggggggca 300
 atccctgcta tcaccgaaga cgaggatgaa ccacantaac cctgattgtg gcctcttttg 360
 gctctgaat 369

<210> 52619
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-F1

<400> 52619
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 gctcactctg ggggtgaagat cacttacaac aaatcgtatg ggaacccgca caccgtcaag 180
 cctttgctct acaagccggt caccggccct ctgtcttgct gttaaacaac acatcttgct 240
 ggaacgcata cgatagaaca tacatggatg aaaatatgta ttcgtgccca gactccatat 300
 gacaatatgt aagtaaacac tgttagatgt aaatcaaaaa ttcacttgct aatggaagct 360
 ggtcatatgt ctgtcaacca atccttgctc ggaaccagaa ttggcggcct aatggtgggt 420
 attttaatgg ttttctt 437

<210> 52620
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-F3

<400> 52620

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gggtattgat ttcatggccg tgattcccc tctcccagtc aaagccatcc aagccgcaat 120
tacttcaggg acaggggtgtt cactggggct agaaggattc tgttcttatt gcacgacaca 180
tgacaacata tccaagtagt ccttgattga tttagcagca gggagtaagc gtcttgctaa 240
aagtggctcc acangtgaac ttagcgatcg tcttgctaaa agtgggtgta aaggtgatcg 300
ctttgaagga aactcaggtt caggaaggac acatgaatat ccgagaaaaa actccaaaga 360
atctttccaa aacctgatgg tggccttcta ccttaaccac ctttggaagt cttaggtggt 420
taattttg 428

<210> 52621

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F4

<400> 52621

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gaatgataga actatatcgt tcatacctcc tgatggatct tttgatctaa tgacatacag 180
gcttagcact caggtaaaac ctcttatctg ggtcgaagca cagattgaga aacattctag 240
aagccgtata gaactcatgg tgaaggcaag gagtcagttt aaagaaagaa gcacagcaac 300
gaatgttgaa attgaagtgc ctgttccttc agatgccaca aaccxaaata taagaacttc 360
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<210> 52622

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D7

<400> 52622

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<210> 52625
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C2

<400> 52625

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 gtctgcacgt gctcatggcc ggctctgctc cggtgacctc tcgtggggtcg cagcagcacc 180
 gtgcacttac gggccctgag c 201

<210> 52626
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-C3

<400> 52626

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 agcagggtca gatgggagct gtaaaaatta tggcaaagga tcttatccgc acaagacacc 240
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 aa 422

<210> 52627
 <211> 271
 <212> DNA

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aaccgacaga tgaatctgcc tgccctgcat aatatcatgc gggagtttga gatgcaaaac 420
tagaaga 427

<210> 52630
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D1

<400> 52630

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ccaatgtgtt gaaaagatta ttgatttggc aacgctgacc ggcgcttgcg ttgtcgcatc 120
cgggcctagc attgccggaa ttttcacgcc gagcgacgag cttgcccaagg ag 172

<210> 52631
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D10

<400> 52631

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ttctctgctg ggaggaggaa gcggatgcca tggaggagaa ggcgggagtg cttgatgagt 180
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gtatgcagct ctaggtggtc agctgctgtc accacaatga gcatgaacgt atggagaaat 420
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<210> 52632
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D12

<400> 52632

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catcactcct	actgttcttc	actgtgataa	agaacaaggc	ttggttcgct	gccgctgtga	180
gaacactttc	aagcttggcg	agaggaagaa	tgттаатcct	ccaggagtta	ttgttgatct	240
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tgacatgatt	gccttgtcat	ttgttcggaa	gggttcggat	cttgtggagg	ttaggaagggt	360
acttggtgag	catgccaaagt	ccataatgct	gatgtcaaag	gttgagaatc	aagagggagt	420
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<210> 52633

<211> 270

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-D2

<400> 52633

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gcgggccgac	gaagaagtcg	gtgtcgcggt	cctgcagggc	cgggctgcag	ttccccgtca	180
gccgcgtcgg	gcggtacctc	aaaaagggcc	ggtacgcgca	gcgtgtangc	acgggtgcc	240
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<210> 52634

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D3

<400> 52634

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ggcctacgac atagcggcca tcaagttcag aggcctgaac gccgtcacia acttcgagat 180
cagccggtac aacgtggaga ccataatgag cagcaacctt ccagtcgca gcatgtcgtc 240
atcggcggcc gcggcagcgg gtggccggag cagcaaggcg ctggagtccc ctgcgtgcgg 300
ctcgtttgac ggcagcagcg gcatgccagt cgtcgaagcc agcacggtac cgccgctggt 360
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<210> 52635
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D4

<400> 52635

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aaaaaaaaaa aaaaaaaaaa aaaatcaaca aaaacaaaaa aaaacaacaa aacaaaaaaa 180
cacaaaccaa cacacaata acactaaaca acatcagcaa caat 224

<210> 52636
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D6

<400> 52636

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tgtccgccgg gcacgggtcg atcggcaagc acaggaagca cccgggaggt cgcggtaacg 120
ccggtggcat gcaccaccac cgtatcctct tcgacaagta ccatccgggc tacttcggca 180
aggttggcat gcgttacttc cataagctcc gcaacaagtt ctactgcccc gcggtcaaca 240
tcgagcgct ctggtcgatg gtgcccaccg acaaagcggc ggaggccggc ggcgacaagg 300
ccccgcagat cgacgtcacg cagttcggct acttcaaagt gtcgggaaa gggg 354

<210> 52637
<211> 362

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87

<210> 52640
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H8

<400> 52640

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ggtcagtgtg ctcaacgatg cgctcaagtc catgtacaac gctgagaaga tcggcaagag 120
gcaggtcatg atcaggccgt cgtccaaggt catcatcaag ttcctgacgg tcatgcagcg 180
ccacggctac attggagagt tcgagtacgt tgatgaccac cgatcgggca agatcgtggt 240
cgaactcaac gggagggtga acaagtgcgg cgtcatcagc cctcgctttg atatcggcgt 300
gaaagaca 308

<210> 52641
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A1

<400> 52641

tggactcaca ggttgtgaca gttggaaagt ttcaaggagg tggagccttc aatgtgatgc 60
gtgattcggg aactataggt ggcaccttcc gagcctttct gaaagagagt tttaatcaat 120
tgaagcagcg gattgaagag gcgatttgtg ctcaagctag cgtgcagcgc tgcagcgctg 180
ccgtggactt cctcagcaag gaccgtactt tcttgccgcc gaccatcaac agccccgagc 240
tccacgactg ctctgtgaac gtggccggcg agatggtcgg ctcgaggaac gtgagggaca 300
ggca 304

<210> 52642
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A12

<400> 52642
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 gtcgggcaaa gccaggagat cgctcccacc tttccaaca gctacaacgg ttcattgcag 120
 acagtccaca tgaaaatgga gctttgaggc atggccgggg aaaaagaaag aaagaaaacc 180
 ccagtccgaa gctcgacgcc gtcgtccccc ctgtacatac ggagaagaga ggacacagct 240
 cgcaccggaa gcagcgggct ctttggg 267

<210> 52643
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A3

<400> 52643
 taaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aagaaaaatt tacaacaac aaaaaaaaaa ccaaaaaaaaa aaacctaac aaacaaaaaa 120
 aaaacaaaa atactacacc tttctatact tcccaaacc t 161

<210> 52644
 <211> 302
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-A4

<400> 52644
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 aagcagggcg ccatgatgac ggcgctcaag gccgcgacgg ccgcgacctt cggcgggtcg 120
 atgctggtgc tgtccgggct gatcctggcc ggcaccgtga tcgcgctcac ggtggccacc 180
 cccgtgctgg tgatcttcag cccgggtgctg gtgccggccg ncatcgcgct ggcgctcatg 240
 gcggccngt tcgtcacctn cggcggcctc ggcgtcgctg cgctgtccgt gttctcctgg 300
 at 302

<210> 52645
 <211> 355

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-A6

 <400> 52645

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 ggtcnancgg atgcggatgc catcccgttc agctacagcc agctcgacac catcctgagg 120
 atgtttcggg tccctcgggg gtccaagaag gcagagcaag tcgccgccac gctccggaca 180
 tgcgaggctg agtccccaga ggctcatgcc tgcgccacct ccgagcaggc ggcggccgac 240
 ttcgctgcct tctcgtcggg ggtcagggcc agcaagctgg tcgcgctcgt caccaccgtc 300
 catgggggga aagacgccac tagatacgtg gtggcgccca acggcatcac acgca 355

<210> 52646
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-A7

 <400> 52646

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 gtcctataa tgtcaccgtt cacatattga tttggattcc attttgggtg tacacagatc 120
 cgaattgcaa cctgtattgc atttattggt agctcgggtg ggaaaatgtg catattctgg 180
 aggaagcaaa attatttctt gccaaattga gattcagtac aggtgcttat tctgttcttt 240
 gcagagagat gtatgaatgc aagatctgta cttccatggc aaatgaactg tgcaatatga 300
 gatggtacga gaatgttgca catcatgaac gaaagtaaag agctttatat agcatacagc 360

<210> 52647
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-B1

 <400> 52647

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cnggaagttg aggcgaaatt gtagtgacct gtttagaagt agctactctt ttttgggaac 420
acagatagtc agatgagatg 440

<210> 52650
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B2

<400> 52650

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cggctcgact gtttatgttg acaatgggct caatacaatg gggcttgcaa ttgacagccc 120
taccataacg tcatagatgt ggttgtggta gatagacgac ctttcctgct gcattgcggt 180
atcatccttg aataaagatc atagttagtt ataaatatga gaggtaaggg caggaaaggg 240
ggaaaattat gaactggtct tttgcgctat ctttgctgga gaggaacatt agagcgat 300
ccaaaatgat gggatgctaa tatgtgattt catatgattc aaaagcagta caataacttc 360
ctagaataag ctgcataact atacttatgg ttaaaaaaaaa accatatat 409

<210> 52651
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B3

<400> 52651

aacaaacaaa acagagaaac acagacaaga ttattcataa aaaaataaga aaaatgaaa 59

<210> 52652
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B7

<400> 52652

aaaaaaaaa aaaaaaacg aaaaatttaa aaaaaaaaaa aacccaaccc aaaataaaaa 60
aattaaaaa aaaaaaaaaa ctaaaacaac aaaatacaaa aataaaa 107

<210> 52653
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F7

<400> 52653

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gtggcagaag agcttatctt tggggatact gaagtgcacat ccggtgcgtc gtcagatttc 120
caagcagcga ccgcaatggc gagagcaatg gttactaaat atggcatgag caaagcaagt 180
cgccttgtct cttataacta cgaggacgat ggaaagagca tgagctcaga aacgagactt 240
gcgatcgagc aggaggtgaa gaacttcttg gagaatgcat acagcaatgc gaagaccatt 300
cttacaaaac acaacaaaga gctccatgct ctagccaacg cacttcttga gcatgagacc 360
cttacaggag cc 372

<210> 52654
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G1

<400> 52654

caaattttca acaagctacc ccaatttcta aagcaataat tactaaatat tgcattgagca 60
aacatgtctg ccttgtctct tataactacc aggaccattg aaagagcatt agctcataaa 120
ccagacttgc tatctagcat gatgtgaaga acttttttga gaatgcatac agcaattcta 180
ataccagttt ttcaaaacac aacataaagc tccatgcttt atcaaccac tttttttgca 240
tgagaacctc tcatga 256

<210> 52655
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G10

<400> 52655

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 taagactatt gaaagggcga tccaagttca tgaagatttc tcaagtgtcg tgaaccctgc 180
 agagttatta gaatgtcact tcacaagggt gaaagctctt gagaatgaat atgggtcttg 240
 tgaaattggt taacctggga cagaaatagt tcaaagagct ttcaccaa atccagtc 300
 cctacatgaa gcatacaaag gggaaattgt tgggctggta atatccaaa atgaagcttc 360
 a 361

<210> 52656
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G11

<400> 52656

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 gttagcacca atcaggagcc atccattgaa acgaccata tacatcagag atagacgtcc 120
 tgctatgcca atgctagata gagctaggcg ttacctctc tcaggagat cttatgacag 180
 gaggcccca gctccagttt acctgaagaa aagtccaagg agagaatacg gtaggcgtga 240
 tgaacttct cctccaagga gcatagctat gattgattac agtcctagag ttccagttga 300
 tagacgtcct tctttgaggg atgattat 328

<210> 52657
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G12

<400> 52657

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 cctggaactc ttgcaccaac tggctctttt gttggaggta cgaagtacat ggtgatccaa 120
 ggtgaacctg gagttgtcat ccgaggaaa aagggcactg gaggcattac tatcaagaaa 180
 actggcatgt gcttgattat cggtatctat gatgagccaa tgacttcagg gcaatgcaat 240

atggtggtgg agaagctcgg cgattacctg atcgaacaag gcttctaagt ttgtcataat 300
gctatTTTTg tcatTgggca cttaagTTTg caccttattt ggttctgtaa tatgtgggct 360
tgtgcatgtg cttggcgat tggatgcagt gaataattta tcttcgcgtt gggttggtga 420
caatgttggg aaccgattt 439

<210> 52658
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-G2

<400> 52658

tgccccgacc cggacctctg ctctctggtt gccggttgtg ctaaacttct ccatctagtc 60
tgtactggat ttgcagtcaa tgctactggg atggccaacc aactacaact aggaaatagg 120
ttgccctgng caaactattc aactaaacta atcgcgactc accactagtc ggctagtTgt 180
tgctcaggTg actagactTg atttatgatt tggaaacact agtagctgct tatcttttat 240
ttacgctagt tatctcaaaa agaccaccaa atgttattat acacattcgt agcaatcgta 300
taaggttata ttatgctaca gtgaacgatg tgccaaaaaa tggataagcg tgttcattta 360
aattctaaga gagccatttt tatgtcctgc tggatacaac aa 402

<210> 52659
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G5

<400> 52659

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tcttattatc agttgctaga ctgcaattgg gcttatgttt gttcactcaa tttttagta 120
aacagaattt ggtataccaa ggggatctat ataacaatgt atgccataaa ttttctgtct 180
accatttctc atgaaatgct taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa aaaaaaattt aaaaaaaaat tttttaaaat ttatttaata ttaaatttga 300

ttattttatat ttattataat taaatttaa

329

<210> 52660
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G6

<400> 52660

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ctcctgccag gctgcgcatc ctttctccag ctctctgata agctagccag cgctcgctgc 120
gtgtcttggt agttattagc tctatctcgc cgccctgcag ctgctgatcg agtgagggaa 180
ttcagcagca gcagcagcag gtagcatagc atagatatga cggcggcgga ggtggaggcc 240
gccaaggaca tcgccgagga gaaggccgct gtgccgttgc caccgtcgcc cgccaagccg 300
gccgacgacg actccaaggc catcgctcgt cttgtcgtca aggacgctgc tgctgggaaa 360
ccttctacag ctattatt 378

<210> 52661
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G8

<400> 52661

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cgtcctggcc ctggtggtgg tgatggcgac gacgagcaca ggcggcaggg cggcagcggc 120
gtgcatccc aagccgctgg tgggtgtgca tccggcgctc atggacggag cgaaaccgcg 180
ggcagcatgc tgctccaccc tgcgtgcgca agaggcatgc ttgtgcgtgt acgccaaaga 240
ccccaagttt gcaaaatata tcaacaaccc caac 274

<210> 52662
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H1

<400> 52662
 cccacgccac ccagaaaaaa aaaaaacaaa aacaaaaatt caattaaaaa aacaaaacaa 60
 aaaacaacac gaccgatt 78

<210> 52663
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H10

<400> 52663
 cttttgttggt gtttgttgag ccatggactg agcatgccac aaagaaatcc tactgcctgt 60
 gtcacccata ttcacctgca caactgttgc ccgtgaagtt ggaccctaata gaaggaactt 120
 tacacatttt agttcgtgca aatctaaagg aagacccaaa ggtgaccgga tctgcacatg 180
 ctctttttgt caaaggggtt tacataaaag aacctgggaa attaaatctg actccaagtt 240
 gcaatcatag tgtcattact atcgatggaa atactgatat tgagttgttc tggaatgcta 300
 aagatttact cagagtcagt cgtgttgaca caaatgagaa caatggtgtt ctt 353

<210> 52664
 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-H11

<400> 52664
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 gggctgcatg cagacggacg ccgttgtcca agacgaaggc gtcgcatctg gtggggcgct 120
 tactgaccga ctccgagccg gccgtgtccg tgcagctcgg cgaccacggc cacctcgact 180
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 tctgctgtt cgaggggggtg ctggacaacc tgggtcg 277

<210> 52665
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H12

<400> 52665

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agaaggatgt gccgaggccg gtgacatact cctactcttt ctttcacctc atcttctccc 180
tggccagcat gtactcggca atgctcttga ctggctggtc aacttcgggt ggtgagagcg 240
gaaagcttgt ggatgttggg tggccatctg tctgggtcag gattgcaacc cagtgggcga 300
cagcaggtct gttcatatgg tcgcttggtg caccctgtgt ctttcccgac aggggaattct 360
aagttcaacc acggttaagcc tggagcatca aacgtgtcta ctgtggtagc taatatatcc 420
tatcaagtat 430

<210> 52666

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D4

<400> 52666

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tcagtatttt ggtgaacctt tcttcttctt aattcgtgat ggtgaagctt tgtcggatat 180
gaaagtacgg attcagaaga gacttcaagt tcctgatgag cagtttctaa agtggaatt 240
tgctcatgtt acattcagta agccagaata ctttcaagat tcagatattg taatgaacag 300
attccataaa cagagacctt gttatggagg ttgggaacaa caccttggat tggagcatac 360
agtcaccaac caaaaaaggc cctacttagg caacaaccag aaccgccatt cttttgagaa 420
gcctgtgagg attta 435

<210> 52667

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-D7

<400> 52667

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tctcaacccc aaggccaaca gagagaaaat gacgcagatt atgtttgaaa ccttcgaatg 120
cccagcaatg tatgttgcta tccaggctgt tctttcgttg tacgctagtg ggcgaacaac 180
tggtattgtg atggattccg gtgatggtgt gagccacacg gttccaatct atgaaggata 240
cacacttntc catgctattc tccgtttgga tcttgcgggg cgtgacctca ccgaccacct 300
aatgaagatc ctcacagaga gaggggtactc ccttactacg agcgc 345

<210> 52668

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D8

<400> 52668

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gcttgctaag tttatcgtga acaaactctga tttgacggaa aaagatattc ctgctttggc 120
tgatatagtt ggcgacgagg acaaggctaa agaaattggt gaagcagcaa aggcttcaat 180
gggccaggat ctgtcaccag ttgatttgat caatgtccag caatttgccc aaagggttat 240
gaatctctct gagtatcgca aaaaccttta tgagtatctt gtgactaaga tgaatgatat 300
tgcaccaaac ctgacatcga tgattggtga agtacttgga gctcgtctaa tctctcatgc 360
tggcagtctt tcaaaccttg ctaagtgtgc aaccttcacc cttcaa 406

<210> 52669

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E10

<400> 52669

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gattgatttt gggattgttg gtcgaatatc tccaagaact tgggcagcta tggaggtctt 120

tttggcttct tttgcaactg aggattatga tgctatggcc tctgccctct ctgaaatggg 180
 tgctacaggg aatgatataa atactaatga atttgcaaag gacctgcgaa agatattctc 240
 atcgattcag gacctggata ctgaaatcat agtggcaaca gcaaggaccc cttattcttc 300
 aacaggatct gcttatg 317

<210> 52670
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E11

<400> 52670

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 atatcgctat gatcggcggg ccaaccgta caacataggg atctcgaaca acttcatgga 180
 gatattctgc accgcagtcc ctacttccaa gaacaacttc agagccaggg tcccagtaga 240
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 acccgcttgg ga 312

<210> 52671
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-E3

<400> 52671

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 caagaagggc tacatcccg caccaccta cctccgcacc tacaagatcg gcgattacgt 180
 cgatgtcaag gtgaacggcg ccgtccacaa ggggatgccg cacaagttct accacggccg 240
 caccggtcgc gtctggaacg tcaccaagcg cgccatcggc gtcgaggta acaagcaagt 300
 caatgggcgc atcatcaaga agcgtatcca tgtccgtgtg gagcatgtgc agccgtnccg 360
 ctgcacagaa gagttccgcc tgaggaaggc gaagaatgac cagcttgagg cggatgcaa 420

a

421

<210> 52672
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-E4

<400> 52672

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tagtactgta tcaacaccta ctgcaaaagg aggcccgta ctccaagtt atgccccact 180
tggatatgga ctggtgggag cttataatcc acgtggaaag ggattggcag atgcttataa 240
taacccctt ggaaatggac tggcaggtgc ttatggtgtg ctttccgctc gtgctgcaca 300
gccaatggtg tatgctccag gtgctcctnc cggctcaaca atgatcccaa tggctcctacc 360
agatggccgt cttgtatacg taccacanng ccgcgngcag cagcctgtgc atgc 414

<210> 52673
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E5

<400> 52673

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gccgggttgc tgcgggtgga ggtggagccc tccggcgggg acttctggaa gcttgacccc 120
attatcgacc tcatcaatcg cggcgccgctc ggggtgatcc ctactgacac cgtctactcc 180
gtcgtctgtg acctgagtaa caatgaatcg attgagcgcc ttcgcagact gaaaggcatt 240
ggagactcca agcctctcag catcctgtgt cgctcattac gtgacatcga tacctacaca 300
ac 302

<210> 52674
<211> 400
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-E6

<400> 52674

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tatcaggatc tcctatctgg cgacgagctc ctgtcggatt cattcaccta caaggagctc 120
gagaacggcg tcctgtggga ggtcgaggga aagtgggtca cccaagggtcc tgttgatgtg 180
gacattggtg ccaatccatc cgccgagggt ggtgaggacg aaagcgttga tgacacagct 240
gtgaagggtg atgatattgt tgacacattc cgtctacagg agcaacctnc ttttgacaag 300
aaatcatttg tgtcttacat caaaaaatgc atcaagaatc tctgtgctgt gttggaacca 360
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<210> 52675

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E7

<400> 52675

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cgatgagaag gtatctatcg catgtgacac aggatgcaat gccgcatct cccgtctcaa 180
atgcttcctg atggcctatt ctgaaggga agtggtggtc agcagcaact gcgaaacgcc 240
gaccagggtg ggctgcgtgt ttcgtcacia acaagatgca acccttatcg ccggcgacgt 300
tggcaacaaa aagggatatt gatggcagac gtgtatttct tggttgaata atatatactg 360
ctagaatt 368

<210> 52676

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E8

<400> 52676

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 cgacagcaat gttcatagca tggagctggt cgatgaggtg cagaaggtcc agtggatggg 180
 tgctgtattc gtcggaatcc ttgcgcatac tggcacggca gaccaactac ggctcatcga 240
 ggaggacaag cagaatatgc cttttccagt ccaaggccct gcttgcaact tctcagggca 300
 tctgattgga tggcacacgt 320

<210> 52677
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F10

<400> 52677

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 tgttcctcca aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa aaaataaaaa 120
 aaaaaaaaaa aaacaaaaac acataaaca cataaaaaaa aaaaaaaata aa 172

<210> 52678
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-F2

<400> 52678

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 ggaggcaagg cccccgcaa gcagctcgcc accaaggcgg cgaggaagtc ggccgacg 180
 accggcgggc tgaagaagcc ccacaggtac aggcccggaa ccgtggcgct gcgcgagatc 240
 cgcaagtacc agaagagcac ggagctgctg atccgcaagc tgcccttcca gcgcctgggtg 300
 cgcgagatcg cgcaggactt caagacagac ctncggttcc agagccacgc cgtgctggcg 360

c 361

52677-52678

<210> 52679
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-D3

<400> 52679

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 ctcatccctt cctgatgtga gctgcacatg acgtctccag ctctccattg atggcagcta 180
 gctgcgccct cacttctctc catggtgaga tcgcccattg tggctcctcc tgctcggcgt 240
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 atggatgcct agttgttgac ttgtgcaatt catagtcacg ggtgaggtcc ctttgtctta 360
 tgctacttat ctccctaata gatatatgtg ggtttgtggc tgattgtgag tatgtgtgtg 420
 cttatgtgtg agatgtgag 439

<210> 52680
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F3

<400> 52680

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 cagccagcta gctactgctt actctcaaca gcaacaattt cttccattta accaattggc 180
 cgactgaac ccctctgctt atttccagca gcaaatacta ctaccatttg gccagctagc 240
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 tgtggctaac cccgcaactc tcttacaact gcaacagttg ctgccctttg tccaacttgc 360
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<210> 52681
 <211> 419

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-F4

 <400> 52681

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 atctctgcct tgtataccag tctctctgga tgagagcttc ccgaggcttc ccgatgcaca 180
 gagtgttttg atggagagag aattgaggag cactccacta ccacctcacc agacaactgt 240
 tgctcctatc cgtgggtctgt ttcactccaa tactggatct gttggtcctt tgtgtctacc 300
 ttctgtctgta aggttctctt cgcattcaaa tcttgagcaa taccccaacc acaattcata 360
 caattctcaa gtaccaagca ctgcangttc ctcaacgctn gaatatgggt cacaatatg 419

 <210> 52682
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-B3

 <400> 52682

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 gaagctgaag aagagggggt atgaggtgct gttcatgggt gatgccattg acgagtattc 180
 tattggacag ctgaaggagt ttgagggcaa gaagctcgtc tctgccacca aggagggcct 240
 gaagctggac gagagtgagg atgagaagaa gcgcaaggag gagctcaagg agaagtttga 300
 gggcctctgc aaggtcatca aggaagtgct gggcgacaag gtggaaaagg tgggtgtctc 360
 cgaccgcgtt gtggactccc cct 383

 <210> 52683
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-B5

52683 52684 52685

<400> 52683

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gcgccgggtg ccgctccgag tcgcctacgc cgcgcgcgag gtctccaacg gctgcgagct 120
caggccctcc gccatcgccg accagccgag cgtcgaggtc ggccggacccg acatgcgcac 180
cttctacacc ctgctgatgg tagatcctga tgcgccgagc cccagcgatc ccaacctcag 240
ggagtacctg cactggctgg tcaactgatat tccggcgacg actggagtat cttttgggac 300

<210> 52684

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B7

<400> 52684

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tggccacacg actggaactg tgatggctta tgcccttgag tacaacgacg agaaaggaat 180
aagctttttc actgacctcc ttgtcgtcgg tgagaaccgc caaacatttg atctagaagg 240
tgacagtgga agcctcatta tctgactgg ccaggacagc gagaagccgc gtcccatcgg 300
gataatat 308

<210> 52685

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B8

<400> 52685

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ccgtctccta caggctacttc cctagcgtcc acgacctcgc gtcggaatcg gacgtgctcg 180
tcgtcgcgtg cgcgctgacc agggagacgc gccacatcgt gaacaaggac gtgctggcgg 240
cgctcggaaa gacgggggtcg tggtaacat 269

<210> 52686
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C12

<400> 52686

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ccgaggcctt cttcccctcg ctccccagct tcagcaggca gatcagatcc attcaaccac 120
gaacaggaaa gaaagtaaga agcctcgagg gct 153

<210> 52687
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-C2

<400> 52687

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acagtggaag caccatgagg tcaaggtgaa ggactccaag acccttctct ttggtgagaa 180
ggaggttgct gtgtttggct gcaggaacct tgaggagatc ccatgggggt cggttggcgc 240
tgaatatgtt gttgagtcta ctggtgtttt cactgaccag gagaaggctg cagctcactt 300
gaaaggtggt gccagaagg ttgtcatttc tgctcctagc aaggatgcc ccatgttcgt 360
tgntggtgtc aacgagaagg agtacaagtc tgacatcaac atttgctcta atgc 414

<210> 52688
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C4

<400> 52688

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aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 acaaaaaaaaa cataaaaaata aataa 205

<210> 52689
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C5

<400> 52689

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 ctcatacacc agagggagga aatggcagtg cagtatgctg ccggttgcac cgccacagca 180
 ttgggaacgc cagagatggt agcagcaagg cacaatgttc tccaaagagc gcctcaaagg 240
 ctggatcagc tactagatcc agggtcacca aatccagggg agacctgaaa gcttccgtga 300
 agaaagtggg actgccaagc gccgcgaact tcgctgtaca aacctaactc atcaggcatt 360
 cactcccata tgccattttt c 381

<210> 52690
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C7

<400> 52690

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 caccgggacg caaggcgggc cgggtgactat ggtgtcggcg aggaagtgcg agtcgcagag 180
 cttccgcttc aagggaacct gctcgaggga cgccaactgc gcaaactctc gcctgaccga 240
 aggtttcacc ggcggcgtgt gcaagggcct acgccaccgc tgcttctgca ccagggactg 300
 ctagtactgc ctctctctgc ctgcctcgg ctctgtctct gcgtgtgcat agccgcagcg 360
 gatcaagtaa acatgcatgc a 381

<210> 52691
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 52691

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tccactaaca acgccctcct ccttttctct catcgccctag cgcaaattct ccgtccaccg 120
cttcgtccaa aagcgtctcc tggtagccggc actcgtctgt gcagaacgct ttatggcctc 180
gatagattaa gatgtcattg ccatgtccaa gttgcttggt gcatgcatgg caagagctga 240
agaagccaca ggcagcagct gctgcgccgt cggccgcggg cttgtcggct agcaaattccc 300
cgcagctctc aacgatgcag tcgtcgaaga tgtgctgtgt cctcgggttg gggccgcgcg 360
agatgacgca ngtgtagt 378

<210> 52692
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C9

<400> 52692

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ggacagcagg cgaagtcgct tcttgggata tctggataat aatattcttg gaagctcgat 120
gcagaaaagg acaaagtaaa tacagcaagc ggggctggcc attaatcatg acagccgcag 180
gggctggcgc gtggccgcac tggaatcgga aatttggtgc aaattgggct cttcgaagat 240
ttgaccaatt gagcccatgt caccttgagg tccaacatgc gctgaattca ttcactaatt 300
tagtcaaagg caggttttgt gaaatacgcc caattgccag tatggcgtct tcacattatg 360
tcgaagaagg aaatcgattg agttatgtgt ggtgaaagaa agtgggtaga caaatattac 420
tgactggtga aagc 434

<210> 52693
<211> 300
<212> DNA

<213> Zea mays
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 <400> 52693
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 ccgtgttggt gaagccagag atgagctcca caggatgctg aacgaggatg aactacgtga 180
 tgctgtgctg cttggttttg ccaacaagca agatctttcc aatgccatga atgctgctga 240
 gattactgac cagcttggat tacacttccct gcgccagcga cacttgtaca ttcagagcac 300

<210> 52694
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-D11
 <400> 52694

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 ggcataggga cctgtgcagg gtctgtgaaa acatcccat tgtcctctgc ggtaataagg 180
 ttgatgtgaa gaacaggcag gtcaaagcca agcaggttac tttccacagg aagaagaatc 240
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 ttgcaaggaa gctggctggt gatccgaacc ttcactttgt tgaagcttgt gctcttaaac 360
 ctccggaagt taccatcgac atggctatgc agcagcagca tgaagctgag cttgctgcag 420
 cagctgcac 429

<210> 52695
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-D2
 <400> 52695

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<210> 52698
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-A1

 <400> 52698

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 atgccttaaa aaattgtttg gaaatcatga tgatcctgat gaggagaaca tttaaacatt 180
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<210> 52699
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 52699

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 agaagctggc cgtcgacggg ctgcggttcc gccgcgtagt gcgcggccag cagcaggctc 300
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<210> 52700
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-A11

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 aatcaataga agccgataat tctttggact atgcggcaaa tttctcacac atgcttggtt 180
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<210> 52701
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-A12

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<210> 52702
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-A2

<400> 52702

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ctcggagggc tcaagtgcta cgagaacccc aagcacaagg tcaccgctgt ccccgccgac 180

gaagaagaga tctgcggtgc cactttcaag gtggtggaag gctctactgt cctgacggcg 240

ctgcactgat cggtcacag ctggcggagg cgatgcgatg atgatgcaga actttgtaca 300

tgcgttggtg gatggtggtg gaacataatg gctgncaaca agtcatgctc atgcaaaccg 360

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<210> 52703

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-A3

<400> 52703

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aaattgtttg gaaatcatga tgatcctgat gaggagaaca ttgaagcatt atgcaaattg 180

atgagtacaa ttggtgatat gattgatcat gtaaaggcaa aggagcacat ggatgcctat 240

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ttgagagatt caat 314

<210> 52704

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52704

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gtggcggtcc ccaagagcca gccgatgcgg ctctactcca gcctgtggaa cgcgggacgac 180
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<210> 52705
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 52705

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 aagagaaacc atagccactg ccttgaggga ttcagatctt gtcttcataa cagctgggat 180
 gggagggggt actggatctg gtgctgctcc agttgttgcc cagatatcaa aggaagctgg 240
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<210> 52706
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-A6

<400> 52706

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gatccagtagc ggggtccaagt tcatacagcaa cggggagacca aggcctgcgc agaacgtcga 240
 caagtccacc agcctggccc ggaaagtgtt c 271

<210> 52707
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-A7
 <400> 52707

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 gtgcgacgct tgtagccgtg ttatgactgt cgtccgtaaa atttgggggc tccccgtaag 180
 ggatgctgcc tggcaaggcc tcggtgtccc acctcgtctg tggcgtgggg cgctggagcc 240
 cggctctggtt ggggttgggaa gccctttaaa cttgtgtcac ttgcatttaa ccttttcac 300
 gctgtttatg tgagtggcct atttc 325

<210> 52708
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-A8
 <400> 52708

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 cgcctcggcg cgtccatgca ctggacctac gaccgcgcgt cgggcgacct ccacgtcgcg 180
 ttctgcgccg cgccggccgc gccggggcggc tgggtggcgt gggcgctcaa cccgtcgggc 240
 gacggcatgg cgggcgcgca agcgcctcgtg gcggggccct ntcccgacgg ccgcggcacg 300
 tgggccgtgc ggacgtacaa cgtg 324

<210> 52709
 <211> 322
 <212> DNA
 <213> Zea mays

6534743-054555

<223> Clone ID: LIB3079-052-Q1-K1-A9

<400> 52709

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tgctggccga ggctgcctcc gcagttgtca gcagtgtag ccacctggat ctcgacctgg 180
gcttactgta ctctggtgaa cgcgcgagg agagccgtgg aacggtggcc gagtgcctcg 240
cctaggagtc tgatgaggag ggccttgatc tggctggatc ccaccgtcgt gcgctctacg 300
gctgtaggta cattagctac gg 322

<210> 52710

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B11

<400> 52710

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gcgaggttcg ggttcgtggg tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc 120
tgctttctca gcagccttgg cttggccaac gaccaacaat tccttcaa 168

<210> 52711

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B12

<400> 52711

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gcgggggttcg ggttcgtggg tgagcggatc gagatggcgg cgtctgatgt tgagtaccgc 120
tgcttcttcg gcggactcgc ctgagccacc gacgaccact ctctgtacaa cgcctttagc 180
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<210> 52712

<211> 360

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-H4

 <400> 52712

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 gttgcaaggt ttcttagctg cgccactgg gttctacagg ttttggacac gcgtggtcgt 180
 ctggtgacag ctcttggtta tgggttgtgg ccgtctatgg tgcttttatt agaaatcgtg 240
 catacattca tccttgacaga tttctgctac tactatgtga agagtcttgt tgggtggcca 300
 ctggtgctac cgctttcctc aggggtggtg taagaagtgc ataatagata ctttgaataa 360

<210> 52713
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-D12

 <400> 52713

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 agtaaattcg caaatgcaaa cttgggtatc atcaggagga cctcaaattc ttactcacac 180
 acacactact cactctaaca cctttctaga cccactcaa gaataatatc agctcatata 240
 aatttataat ttttaccccc accctttttt tatgcctccc ctgatccac tactcattac 300
 taacctttat attgattttt ctataaaaaa aattctacca caatcctttt ttt 353

<210> 52714
 <211> 145
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-D7

 <400> 52714

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tatgctagca gcaatggcct cggtgacgag gttcccggcc gtggccctcg tctgctgct 120
cgccgccagc gccttcctgg ccagc 145

<210> 52715
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-D9

<400> 52715

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tgagctcaac gagaacagaa atctcgtgtc ccagcaaagg tnaaaagctc gtttcattct 120
catccccagt acnaatacca accgtgaaag cgtggcctat cgatccttta gaccttcggg 180
ttgattaaaa aaataattta taaatattaa tagttaata atataatatt tttatttatt 240
ttaggggtgga ctttttaatg gttttcaagt ttcttttttc tttcattctc tcttcctttt 300
cttctttatt ttttgttggt aatct 325

<210> 52716
<211> 269
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-E10

<400> 52716

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tagaactact gcctggccga ccgcnacccc nccgtcntgc tggccccggt caacccaag 120
gacgaccacc agcactggta caaggacatg cgcttcagca cccgggtcaa ggacgaggaa 180
ggcatgccgg cgttcgcgct cgtcaacaag gccacggggc tcgcaatcaa gcactccctc 240
ggccagtccc acccggtcaa gctcgcgcc 269

<210> 52717
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-E4

<400> 52717

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tctttcatag cttattgtat atcatagatc atatcatcgt tctccatata ttattccttg 120
agttacttct tgtctttct 139

<210> 52718

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-E7

<400> 52718

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gtacgccgtt ccggaggaag agctcgcccg caccctcccg gagttccgcg cctgggtggga 120
atacaggccg gagctcgaac gcctcgctt ctccactacc ctcacctccg acccggtccag 180
caaggtgaaa gttgtgttct gtccacctgg acctgtcaaa atcgcagcta tccggctgat 240
atataccgaa ttcaaagatt agaacttgct cagactgatt ctgatactgc agggcaaaaat 300
aatgtttaca accatagaat gcatcaaggg gatctttc 338

<210> 52719

<211> 73

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-F10

<400> 52719

aaaccnnc cgaaccacgc aaccgcacga ccatacnaa accaaccaaa tcatctacaa 60
caacaacacc aaa 73

<210> 52720

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-F12

<400> 52720

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ganaacaaaa acactcgccc gttttattta aaatttcaaa accccaccac cncnncanaa 120

nanaaattca aagagattgt caagtcttac gaatcaatta aatcttatag aaaaaactct 180

ttaaatttat tcaaacttcc acttttatct tatcaattgt taaaaactct taccttatca 240

ctctcgaatt aatttttctt tttatattta atca 274

<210> 52721

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-F3

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<210> 52722

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-F4

<400> 52722

attccctgct ctacccaaga catccccgac cactcccca aatcctatctc c 51

<210> 52723

<211> 82

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-F5

<400> 52723

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anatttatag ataggtcttt gt 82

<210> 52724
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-F7

 <400> 52724

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 ctttcttatg ctcccttggtc tttctgcaag tgctgctact gctaccattt ttccgcaatg 120
 ctcgcaagct cctatagctt cccttcttcc cttgtacctt ttaccagctg tgtcttctgt 180
 atgtgaaaac ccaattcttc aactctacag gatccaacag gctagcacag ctggcatttt 240
 a 241

<210> 52725
 <211> 120
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-F8

 <400> 52725

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 tactcgccg ggccaaacga cgcgagagcg ctgctncttt tatataacca ccgcggtggc 120

<210> 52726
 <211> 99
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-G1

 <400> 52726

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 atgtttcaaa acctccgaag ggttcgacag tggctgttt 99

<210> 52727
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G10

<400> 52727

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gcgagttcca aggtatgcaa tggaaacctt gatactgggg acagatctgt ggccatgtgg 120
tggattgtat gacctctccc acccaactcat gctaagacaa acttgggttg ggcgcccacc 180
cttcgttcgt tgaatcatga gctcgagcct tagaggagaa ttttcagaaa aggaaatcta 240
catgcccagag tgaccatgta aatatttacc attgcagttc gcggacccat gagtaccaaa 300
aaaaagagat gattcatatt gacctgtaac 330

<210> 52728

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G2

<400> 52728

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aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aatttttaaaa aaataaaaaac tccaacc 117

<210> 52729

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G3

<400> 52729

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gtacatctgc ggtccgtgga ctggactgaa gcgagcaagc ctgcgccggc tccgtcgttc 120
tcccaaacag aaactgtagt tggatcaagaa ctgggatact gagttgaata tgatctcaaa 180
tccggtggac tggatatagtt tctgaccggg atagaattgg tagggatgca agattggaag 240
gtgcgtgagt tcgaatgtta atttactgat gagtttgccc acaacaatag caacgaa 297

<210> 52730

<211> 56

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-G4
 <400> 52730
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<210> 52731
 <211> 76
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H1
 <400> 52731
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 aaaacaacca ctctaa 76

<210> 52732
 <211> 236
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H10
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 aaaaaaagac cgtattaaaa aaaaaaaaaa aaaaaacccc acccacaaaa aaaagggccc 120
 acctttctaa aacatccaag cttactcccc catccattcc acgtctatcc cttttact 180
 gccacctaaa ttcaaaccac ttcccaacct ttacaacat cttactcca aaaacc 236

<210> 52733
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H11
 <400> 52733
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 cttataaata aaaaaatttt ccacacccaa ccaaaccaaa caaacatacc cttttctcca 120

acactcaaaa ctcaatttca cttgccacct aattacaact ccctgacctt catttcacaa 180
 cctcaaccct tctaaaaccc ttctctaccc caactcattt cccctccatc acatacccct 240
 t 241

<210> 52734
 <211> 64
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-H12

<400> 52734

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 tatt 64

<210> 52735
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-H6

<400> 52735

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 taaaaaaaaa acaaaaataa aatataaaaa taaataaaaa aaatttttaa acaaaataat 120
 aataaaatat aatcaaaaaa aaatataaaa tacaataaaa aataaaaaata aattaaaaaa 180
 aaacaataaaa aaacaaaata taacaaaaaaa ataaaaaaac aacaaaaaaa aaatata 237

<210> 52736
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-A1

<400> 52736

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 gattatgatt tgagtatgac tcatgagatt aattcacacc cctgaaggta aatgaagtat 180

tatttgaggt tggattgta tctgaaggta aatgaagtat tatttgaggt ttgtgttgta 240
tctgaaggaa gtgaagttta ttgatgtttg tagcatgcct tatacattgc atgactcatt 300
tgcata 306

<210> 52737
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-A11

<400> 52737

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gtttgcttga taggatnttt ganctcgggt ctcgatcccc ttttgctent ctggagatag 120
ttgggatgcg cggagaagcg gctaaagttg gacatacggg gaattgaatt gccagaggct 180
gcagatacag aagtccgaat cttgatcttt ttgttcattc aaaacacgga tggatacaac 240
aagtaagcaa tccttccatt cttttggaag ttgtagcaac tgttccctag actatgttga 300
tgcaacctct ttgtatgagt tctctgtag aacttcaccc gtttgtgcca taagtattct 360
taaaccttta aaaaaaccac cggcattttt tttttc 396

<210> 52738
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-A12

<400> 52738

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tcccatatag agtacgggat ccagaganaga tcaatataaa agatactgct aaccaaccca 120
tcctacatcn ttagtggcca aagagtaaac gcggagctga tagagtacca gatcctgtgc 180
tgccgagcac actcttctgg acagtggctt ctgctgctgc tccacccgaa atggaagtcc 240
ggcatggaca ggga 254

<210> 52739

<211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A3

 <400> 52739

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 tcgctccctc ggagaatagg aggcagctct ctcttcgtcc gccattgctg gctcttccta 120
 cccctacatg c 131

<210> 52740
 <211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A4

 <400> 52740

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 cgtcttgctg ctggctgtct ccacgcccgt cgccgcc 97

<210> 52741
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A6

 <400> 52741

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 gaaaattatg ttttgaggga ccaggaaact ttgtatcggc aaaggtattt tgatcttatg 180
 gtaaaccatg tagtgaggca catcttttag acacgatcta aaattgtctc atttattcta 240
 aagttttttg a 251

<210> 52742
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B11

<400> 52742

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ctgcttgacg atctctgcag cgggttcctt ctgaatgtgc ccaaggagga gctggagtcg 180
ttcgagcgga tcctgttctt gctggagcag gcgcactggt tctatgagga caactccgtt 240
gagcacaact ccaacctcaa gtcctctt 268

<210> 52743
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B12

<400> 52743

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tgcaatggaa gtcgcgaagc aagccnaaca ggagatactc agggctgatg ccagcataag 120
ccaaatcagc ttgcagctaa gattggggcca acaaataag caacttcagc tagcatcgca 180
agaacgtcgc tgatctacat gcaagagatc actgatccaa ttgctggctg cttcatgagt 240
ctactcgga gtatttcctt ttgctaattt ttctgacata cattaacttg gtctgcttat 300
gaagcaataa gctataagat tctaagaacc gactgtgtac a 341

<210> 52744
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B2

<400> 52744

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gccgtgtcgt gtcgtgccct gtcctgtcct gtcctgtcct tcctggggct catctagcat 120
tcagactgtg ttgtgttgtg ttgtgctgtg tgggccgagt gtgcactaca gcatcggggc 180

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-B9

<400> 52748

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aaaaaaaaaa aaaaaaaaaac cgaaacgttt aaataaaaaa attaaaaaaa caaaccacaa 120

aaaaaaaaaa aaaaaaaaaa tntctctcct ttaaatacac ccaatcctta attaca 176

<210> 52749
 <211> 317
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-C10

<400> 52749

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agctcactag caacgaccta acaacaatgg ggngcatgat attatacgtc ctcccacccc 120

tccccctact tganagtcca acaaattcct tcattattcc acaattctca cttntctcta 180

ctgccattat tccacatttc ctccctccan ttacttcaat antcttctaa cacccatctn 240

ttcaaacctta tattctacaa caatctctta tcactatcat cttaaaacaa ccatattccc 300

aattacaaca acaattc 317

<210> 52750
 <211> 94
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C4

<400> 52750

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attgtggagg ggaggagatg gcgtcagctg atgg 94

<210> 52751
 <211> 61
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-C6
 <400> 52751
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 c 61

<210> 52752
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C7
 <400> 52752

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 gcatgtcctg tgaggggtgt gttggagctg tcaagcgggt cctcggcaag atggaaggcg 180
 tcgagtccta cgacgtagac atcatggaac agaaggtcac cgtgaagggc aatgtgacac 240
 ctgacgccgt cctgcatact gtttcaagac tggcaagaag acttcgttct gggagggtga 300
 ggccgttgca agttaattct tcacacctgc cgggtgccacc gtctgacatg gtcgatgatc 360
 t 361

<210> 52753
 <211> 190
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-D10
 <400> 52753

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 catgactaca accagacgag caaccnnttc atccgatcat ggaataaagg gtgtcccacc 120
 acatcaccaa ncccaacacn acngacatga gcgcggacgc cggcaccgac aggggtgatgg 180
 ggggggctgg 190

<210> 52754
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-D3

 <400> 52754

 ggcgtcggca atcctgaccg gatcaacaaa tacgtagcta cccctccccg cgtgcgtcta 60
 gttcgctcc gccgcctgct cgatccggtg ggaattcgcc gctgccgggt tgttttcgct 120
 ggggtgatta aggctcggga ttcgagatct acgcgagtcg cgggcaagca gccatgagcg 180
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<210> 52755
 <211> 173
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-D4

 <400> 52755

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 tctctcacc gaggtccgca agaactgcac ctgctccttg cttatgccct actgcaagac 120
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 <211> 274
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-050-Q1-K1-E1

 <400> 52756

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 aaaagaagca gaagctggtg ggaagacggg tgacctagat tcttatgaga ttgaaggcgg 180
 tgagacaaaa gcagagatat tgcaaacct agctgagttc cagttttctt gggatcatgta 240
 caatggtgcc ctaaaaaatg catgcagtga gctt 274

<210> 52757
<211> 197
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-E11

<400> 52757

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cccgtgcttg ccataaagc tgaagaggat ggtgtcncat gcgtagaatt cattgctgga 120
aaagaaggcc atgttgacta tggcacagtt cctggtgtgg tctatacaca tccagaagtt 180
gcatctgttg gcaagac 197

<210> 52758
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-E5

<400> 52758

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atgaaacggt actgattaag gttgatcgag tcctgtactc atcagttgta taccctcaca 120
attatggttt cgttccaagg actctttgtg aagacaatta cccaatggat gtgttagtcc 180
tgattcatga gcctgttggt cctgggttcg 209

<210> 52759
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-E8

<400> 52759

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ttaaaaaaaaa aaaaaaacaa aaccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaacaa aaaaaaaaaa acccaaaaaa aaaaacacaa acatacaact acaaaactct 180
acctacactt tcaccaaaat aaaaataaca aacaatcatt t 221

<210> 52760
<211> 517
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-F11

<400> 52760

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gatgtntata tataatanna cccaaccaan aaccaannnn nnnaaaaanaa aaaatataaa 120
atataattat ccacaataat aataaaataa tataaaattc ctaaaataaa ctaataaata 180
ttattaaata aaataataaa taaacaataa aaataaaaaa aataaaaaaa aaaataataa 240
cattaaaata aaaatataaa ataaaacaaa ataaatatat aaattaaata tatatataaa 300
tactaaacta aaaaaatata taataaaaca aattataata tataaaaaata aataaaaaat 360
taatataata aaaattataa aacaaataaa aataaataaa ataaaataaa aataactaatt 420
taatatataa tataataaat ataaaatata atacaataaa aataaataat aaaaaataaa 480
atatacataa aaaaaatata ctaattaatc atttata 517

<210> 52761
<211> 235
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F4

<400> 52761

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aacacacacc ttacttcaaa cacataccat aaatatcatc ctctactaa taactcacac 180
tttacttaca ttcaaactct accatttaat ttatcaaaat tttccaaca taatc 235

<210> 52762
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F6

<400> 52762

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tccaaactct ctaccaacaa cacaaacagt cttgttttct ttacttgtcc agtgaagtta 180
tcaagatttt tggatctgat ccattctgtg cgggctatct tactaacttg atacaaatac 240
ttttcagcca tacagtgcaa cttcttagaa cgattcaaga ttttactgcc agaccagata 300
tagctgatta ttgctatttg 320

<210> 52763

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F8

<400> 52763

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acacacaaac caaaaaaaaa acaaaacaac ccaaacaac aaccaaaca acataaaaaa 120
aacaaacaa aaaaaaaaaa aaccaacaaa acaaaaaccc aaaaaaaaaa aacacaacaa 180
c 181

<210> 52764

<211> 121

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-G10

<400> 52764

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atctttttta tactcnatca aatttttaaaa ttcttttttt ttcacaccaa attntcattt 120
t 121

<210> 52765

<211> 399

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-C5

 <400> 52765

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 catgcgaacc aggagaagcg gtgggtgctg tctgatttcg aggttgggaa acctcttggg 180
 aggggcaagt ttggccatgt ttatcttgcc agagaaaaaa ggagtagtga gattgtggct 240
 ttgaaagttc ttttcaagag ccagctcaag caatcacagg ttgagcatca gctgcgacgt 300
 gaagtggaga ttcagagtca tcttcgtcat cctaataattc ttcgcctgta tgggtacttc 360
 tatgatcaga ccagggttta cctaactctg gaatacgct 399

<210> 52766
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-G11

 <400> 52766

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 cacggaattc gcagggtttc tggtctttac ctgatcagat tgccgctgga cgtcctaatt 180
 tctggcacac tgtaaaactct cattaccaag accagcaagg caatcacaat ctgttccttg 240
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 tgatccagga agtcggtggg atgtctcaaa gttgtacaaa cactcaagtt gggaatgagt 360
 ttatgctcac tacct 375

<210> 52767
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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<400> 52767

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acaacatcta cctcaaatg gacgccttcc acggcgacaa ggaccacggc ggcgtccacg 180
acggcaccac cgtcgtcctc tgggagtggg ccaagggcga caaccagcgc tgggaagatcc 240
tgccctggtg aacgtgaaca gagacgagct agatgaatcc aaggaacctt acctagctgc 300
tgccgcgggc gcctaattcg tctcctnecg ctctagctgt tatctgtctg tgtcttcgcg 360
tcctcggttt cctgaatgga cgaattatat atagcatgca tgtacggcta gcgaccatgt 420
ctgaatga 428

<210> 52768

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G7

<400> 52768

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ctcaacattt actcctatca cttcgactat taccactttc tcttccacta cttcaccacc 180
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<210> 52769

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-049-Q1-K1-G9

<400> 52769

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agttcacatc gtcagcta atgtgtgaat ctggaagatg cgtcttctag 180
ttttaatatc tgggagaggg aattcaatct tccggtctat acggcctggc cgaagcaaag 240

caggatcaag actttcaatg cngcttggtg ctagaataac tttaacatct ccacgcgagt 300
 caaaaccatc tagctgat 318

<210> 52770
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H1

<400> 52770

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 tactggtaac tactcatggc gaagtgtagc tggcaccaga atgacccgta tgcttaacgt 180
 ggtctacaat gcgtcaaaca ttgatcttgt gaggacacat acccttgtga tgagtgccat 240
 tgcgcaagta gatactccgc cattcaagca gtggtacctc actcactctg gagctgacat 300
 tggtacgaag aagaaaaccc ctgctgcaa 329

<210> 52771
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H11

<400> 52771

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 gggctacgag caagtgcttg ccaagatccc tggatttggt gctcagatca agtgcaccat 120
 cgacacactg tactcgcacg gggcccgtaa gttctggatc cacagcaccg gcgc 174

<210> 52772
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H3

<400> 52772

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accgggcggc	cggcgctcac	tacggctcgt	ggcagagcgc	ccacgccacg	ttctacggcg	180
gcggcgacgc	gtctggcacg	atgggcgggc	cgtgcggtta	cggaacatg	tacagcacgg	240
ggtacggcac	caacacggcg	gcgctgagca	cggcgctgtt	caacgacggc	gccgcgtgcg	300
ggtcctgcta	cgagctgcgc	tgcgacaaca	acgggcagtc	gtgcctgccg	ggcaccatca	360
ccgtcacggc	caccaacttt	tg				382

<210> 52773
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H4

<400> 52773

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tatca						65

<210> 52774
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H5

<400> 52774

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ctctcctatc	acctgaatcc	ctcgagtatt	catcgccggc	gcagcgcggt	ctcttccctt	180
cgctggagaa	gggggaaggg	gacacgaacg	gagcagaagg	ccatggacac	gatgcggggc	240
gcgcttgagc	gggccaagat	gctggtgggc	atggaggtcg	acgaggagtc	cgcgttgcca	300
ccgtccgagg	agcagtcctt	tttcgactac	atcaatcggc	acttcaccct	caacaccact	360
cagaggctct	a					371

<210> 52775
 <211> 408

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-H6

 <400> 52775

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 ccatggccaa gacgatacga ttccaaagct aacagatgct gctgcacaga agtaggctag 180
 ttcctttttg tacctcaata cttttgatat ggaaaatcat atacagttca gttgggtctgc 240
 ttaacattcg atttcactcg ctccaaacga aaaatgcat ccaatggctg tgcgatttct 300
 gtgtaaaact tgtacacgtt tgactgttct aaacaatcca ttttttatta aattttaatc 360
 acttttatat ttctctttgt ttttttatta tcttttcttt aataaaaa 408

<210> 52776
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-H7

 <400> 52776

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 caagaagctt ggtcctggcg ccgacaattt tggagagcag acagaactca ttcctattga 180
 ccatggcttc tgtcttccag aatgcctaga agaccatac ttcgagtgga tccact 236

<210> 52777
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-H8

 <400> 52777

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 tagagggaga acacggtaat attgcaccat gttggagtta ttttgtgtgg ttgaacttga 120
 aaaacaattc ttcaaaacat ggataacca tactttattg caatgggtgtg acatgagtac 180

atgacatgac atgacatgct aaggcagaaa attatgttgc agcagtggta tatgtgtggt 240
 tgcagcttgg taggtaaaat tttatgtcat gtgtcagccg aatcatgaaa atatggctat 300
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<210> 52778
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H9

<400> 52778

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 gagagtttga gaagaaatat gaaccaacca ttgggtgtgga agttcatacg ctggatttca 240
 ccacttactg tggtgagagc aaggtctact gttgggatac cgcagggcaa gagaagattg 300
 gtggcctcag ggatggagac tctatacatg ggcactgtgc gatcaccatg tgtgaggtga 360
 cctcaaggcg tacttacacg agatgtgcct acacggcata tggacctgtg cacgggtgtgt 420
 gaaaac 426

<210> 52779
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-A4

<400> 52779

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 atgaatgttc cttctgggtc cctaaaggag gtactgggct tgctgagatc tctatatgtc 180
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 gtaacccttg tgccgaaaga agtcctgaaa ctgtgcagtg aacttaagcc ccatgcgctt 300
 gctggtggta ggtctttcgg aatacctgat gcctttctta gtccacttgc ttttgactgg 360

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377

<210> 52780

<211> 190

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-B3

<400> 52780

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gactgaaaat tcacgcggct tgtggcagcc gttcaaccgc ctttctgggg acactcccta 180

atgtgacgtc 190

<210> 52781

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-B5

<400> 52781

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a 61

<210> 52782

<211> 109

<212> DNA

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<223> Clone ID: LIB3079-050-Q1-K1-B8

<400> 52782

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gtgtactata aaaccacggg ccccaacccc tcaagtatcc tcaaaagtc 109

<210> 52783

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G7

<400> 52783

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tgccccacgc gatccctgcg gccggtagcg gcggcgggcc ggtcaccttc ggcaacggcg 300
gtgagcggct gcccctgttc cagcgccttt ggaccgagga gggcgagatc gtgatccttc 360
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<210> 52784

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C1

<400> 52784

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cctaaagtga atatcggata gaatatcaca gcattgcaac agaacgaatc tccttttttg 240
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<210> 52785

<211> 173

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-C10

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aaaacaactt ccatctaaaa ttacaccaac aaataaaaaca aactcaacta tca 173

<210> 52786
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E3

<400> 52786
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cgcggcggtg ctctctctcc aggcctctct cctc 154

<210> 52787
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E6

<400> 52787
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caggtgttca agatcttctg ccgcgccaac gagaactact gcctggccg 169

<210> 52788
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E7

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<210> 52791
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F10

<400> 52791

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ggctccaagg ggcggggcgat cgctggaagc ttcgtcagcc gcgtcctcgc cggcaaggcc 180
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<210> 52792
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F11

<400> 52792

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<210> 52793
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F2

<400> 52793

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tgtctcggac tcatgagaaa ccaccgagac tgctactgca ccgcggtgcc ctgacgtggt 120
gctaacacgt gctaggtgac tgagaatagt tgggtattgc gttatTTTTT ttaatatggt 180
ctgaacatga gaatgcccta gtatttcatt aggatgtgta cattttacaa tgttttatgg 240
acaattactg ttgtatTTTT acttttgaac tccagagccc tgttttgggtc acgcactata 300
gtgttcacct aaactctttt tcgaacgttt actaattaat ttttttttca tttttttttt 360
ttttatgttt ttttttttct ttttttatTT ttatTTTTTT tattgtttat tttttttttt 420
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<210> 52794

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F3

<400> 52794

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gcctcactgt ctccatgcta cgaagccggc ggctgcatcg ggaaacccaa gaagtcaccg 120
ccgccgccga gaaggccata cttctcgctc tattccgagg accaccagaa ctgccgcttg 180
atctgtagct ccaagggttt caaggacggt ggctgggtgtg acgaaagcgt ggagcacaaa 240
gtgtgctgct gctcccatta gaaatataat agcgtatggt atgttgatgc atatatatat 300
gcatcgcca tctacctgtg tgggtgcaaaa ttctgaataa aatctggctt ttttccggat 360
aaaaaaataa tttttt 376

<210> 52795

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F4

<400> 52795

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gacaaaagca aattaagtga tcggcactgc ggcactgcct cacggtgcca gttcttttcc 120
ccctcgagtt gcagaaattg gaccaggaga accgtttaat ttagctattc agtgacgacc 180

tctttggagc agtatttggg tgtgcttact agtatatggt ttctagtcac cattcacgct 240
 tttttttgag ccgaagtgtt tgcaaatacac tctgatcttg gaatgacaga attttgtatt 300
 cccaaagggt tatgctgac aatccagatt ttac 334

<210> 52796
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F5

<400> 52796

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 gttgatgatg tgaccaaagc ctctagcaca aagcgtgctg ctgctcccat ttaaaatata 180
 ctatcctacg gtaccttgaa tcatatatat attcgagcga ctaactacat gtactgtagc 240
 acaaatctta aataaaattg gctttttttc 270

<210> 52797
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F8

<400> 52797

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 ggcgctgggc ggcgggcgcg gcccgctgct gggcggtgg aaccgatcc ctgacgtgag 180
 cgactcgcac atccaggagc taggc 205

<210> 52798
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F9

<400> 52798

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 gggagtgggtg gggccaatcc aggtgttggt ccagctgcag gatctgggtgc ccttgatgcc 120
 ttgcgacagc ttccacagtt tcaagcactg cttcagttgg tccaggctaa tcctcaaadc 180
 ttgcagccaa tgcttcaaga actaggcaaa caaaacccac aaatcctgcg tttgattcat 240
 gaaaatcaag ctgagtttgt ccgcttggtg aacgaaactc ctgaagggtg tcctggaaga 300
 aacatattag gtcaactggc agctgctatg ccgcaatcgg tgacagttac cccagaggaa 360
 cgagaggcca tccagcgggt tgagggaatg ggcttcaacc attagcttgt gctagaagtt 420
 ttctttgca 429

<210> 52799
 <211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-G10
 <400> 52799

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 tcaggactat actaatgctt aagaaacagc ctacatctta tgtctactaa agtacagcga 120
 gctgcaatac tataaggctg caccaattac taactttaaa gatggtaaac gtgtttcaaa 180
 gagatcagag tgaacaaaaa taggagatcg cagctactaa aatgctatga ct 232

<210> 52800
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-G11
 <400> 52800

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 cacagtgagc tgcttccgag ggcacgcgtg tcattgggta aggtcgcctg ttccccgaacc 180
 tcagacaaga gggctctggca acgggcctgt gactatatag ggctcatgaa tgaaccagac 240
 atctgtttat ctgtactggg accgttcacc gtccaagaa aatggccccg gatatttgaat 300

ttgaattaaa gagggaccaa aattggaact taaggtccct tttaaccttt aaaccaacca 360
 aaagggtcac ccgcttataa attttcaatt tgccaacttc ttccaaccga atggagaaaa 420
 tatattt 426

<210> 52801
 <211> 139
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-G12
 <400> 52801

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 ccacttgcca attctaaat 139

<210> 52802
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-E11
 <400> 52802

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 gaaatgttca tttgcacaac aacaaatcag ctatttgggt cacattatca gtgcccgtgg 120
 tgtagctact gatcccgaaa ggtgtcagcc atcgctaatt ggccttgtcc tcaaatagtg 180
 aaggaactac gcagctttct ttgattgggt ggctactacc gcaaatttgt ccgtaacttc 240
 gaagtcatat caaaactttg actcttctgc tcaagaaaca ttcagtgttt gtgtggacgt 300
 cagtacatga tcatgctttt aacgtgctga aacagtcctt gtgcttggcg catgtgttga 360
 aattgcccaa ctttggacat gcattttcag gtgaaattga cgcagcaaca actggaatgg 420
 gtgcaat 427

<210> 52803
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-G3

<400> 52803

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ggctctaccag aggtcctcct ccttcgggga cgatgtcatc actgcctaca ggacccaat   120
atgcaaggcc aagcgaggag gcttcaagga cacctaccta gaggacctcc tctactgttgt   180
tctcaagggt cccttccctt caagggtcaac cgccagtgtt catctaggct acaggcagta   240
gccgatgtcg tagctgctat aaaggttggg tactatgaca taggtacata gtatctgaat   300
atacatgcta ctttcgctct tgtgctttag tttggctgct gaatcgctgc tcttccggtt   360
tgttcgggta gc                                                         372

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<210> 52804
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G4

<400> 52804

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aaaaaacaaa aacaaaacga acgaattaaa aaaacaaaaa acacaacacc aacaacaaaa   120
acaaaaaaca ccaaacacac caactactca caaccccacc tataccttca tcatcaccaa   180
cattaactac accctcatct tcatcccta ccattcaac ctc                                                         223

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<210> 52805
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G6

<400> 52805

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agaacgtcaa ccagtaccgg ttcatgtgcc atgacctcct gcggcaacca gccgctcgac   60
cgcgacggca agggatgcgg ctctgtctac aagatcaggt gctccaagca cgccgcctgc   120
tccggccgca ccgagaccgt cgtcatcacc gacatgaact acaccccggg cgtcgcgccc   180

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taccacttcg acctcagcgg caccgtcttc ggcaggctgg ccaagcccgg ccgcaacgac 240
 gacctgcgcc gcgccggcat catcgacatc cagttcgcca gggtagcctg cg 292

<210> 52806
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B9

<400> 52806

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 tgacgccggc ggccggcaatc ttccggtaca gcagccacgt cgtcgtgttc ttggtcgggc 180
 tgatgcagcc gagcatgctc cgtgcgctca ccgattggcc catcgccgcc gtcattctatg 240
 acgagactct ccacgactgc ctgaacgaga tctcgtgcac tctcctacag gccgatgtcc 300
 agttcaagat ggtccgcgac atgtttgcca acattaatcg catcgtaaaa cttgaggcgc 360
 ttgccgcatg caccaacaag cgccg 385

<210> 52807
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C1

<400> 52807

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 gtctgatctt caagtggaac ttttccaagt tcttggttga caaggaggga cgtgttgtgg 120
 atcgctttgc tccaaccact ttaccctgt tcattgagaa ggatttcattg aatcttcttg 180
 ttagctctta atcattatct ttgttcaatg ctttttatta ttttgttttt tcttttcttc 240
 tgttattatt ttatttttat ttgttttttt ttttcaattt tttttttttt ttttttttta 300
 tttttttttg gtgttttttt ctttttttat tttttttttt tttttttttt ttttttttta 360
 tttttttttt ttttttttta tttttttatt tctttttttt tttttttttt ttttttttta 420
 tttctatttt ttattttttt ttttattttt ttattttt 458

<210> 52808
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-C11

 <400> 52808

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 cgacagcgcc ccagggttcc tactctcgtc gcagcggcag cagtgagggg aagatgtcgt 120
 cgggtgttcag cggcgatgag accgccccct tcttcggctt ccttggcgcc gccgccgctc 180
 tcgtttttctc atgcatgggg gcggcgtacg ggacggccaa gagtggcgtc ggcgtggcgt 240
 ccatgggtgt catgcgcccc gagctcgtea tgaagtccat cgtgcccgtg gtcatggctg 300
 gtgtgctcgg tatctacggc ctcatcatcg ccgtcatcat cagcactggg atcaacccca 360
 aggccaagcc atactacctc tttgacggct atgcccacct gtcgtccggc cttgcctgtg 420
 gtcttgctgg gct 433

<210> 52809
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-C12

 <400> 52809

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 gagaactcgg tgctggaagc tgtgctgcaa ggggtccgca tgatctgcta ccctgtctcc 120
 gcagaccatt tcgtcaactg cgcctacgtt gttaacttgt gttaaagcat gagtggacct 180
 gcggatcaga tgacagtga a ctgcgacgcg ccgctcttaa tgcggcatgc gctgctacaa 240
 gtggaggact ttt 253

<210> 52810
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-C2

<400> 52810

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gaagttcttt gaccttcctc atagtgagaa aatgaagctt ctccgagacg agaagaatag 180

agggtacaca cccatgctag atgaaattct tgatcctgaa aatcaagttt atggtgacta 240

ctattgttga tattatattg gagttgatgt accttgctaa ttattcataa tcatatcttc 300

tatttttatg gtctcatttc attgctcttt tatataagtt tctactctaa tttgtttgta 360

atttattggt ctttttttta tggatgggtt ttttttattt tttatatattt attttttata 420

tttatttttt tttttttttt atttattttt tattttt 457

<210> 52811

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C3

<400> 52811

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tgctggctctt gcattcttacc ccattgatac tgtccgcaga aggatgatga tgacttctgg 120

tgaggctgtc aagtacaaga gctcattgga cgcattccag cagatcctta agaaggaagg 180

ccccaagtcc ctgttcaagg gtgctgggtgc taacattctt cgtgccattg ctggcgctgg 240

tgtgctttct ggctacgacc agctccagat cctcttcttc ggaaagaagt acggctccgg 300

cggtgcttaa atggagaaaa atgatgacga acaagagcag ttcgctcccg gtccagccca 360

atcaggatct ggtcaagttt tttgccttt 389

<210> 52812

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C8

<400> 52812

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gtgctgctg atgacttgac agatcctgct cctgctacta cctttgcca tcttgatgct 120
acaactgtgt tgtcacggca gatctctgag cttggtatct atcctgctgt cgatccactg 180
gattccacat caagaatgct ttctccccac gtgctgggtg aggatcatta caatactgct 240
cgtgggtgtc agaaggttct tcagaactac taatatcttc agggatttat tgctatctgg 300
gtattgattt tcttagttga gtttgactag tgtccttttt ttctttcttt ttagtttatc 360
ttttttttat cttttttttt atttttttta atttttttat tttttttttt ttttat 416

<210> 52813
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C9

<400> 52813

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tatctccctg aatcaccatt tgccggctac ttagagttcc aaaataacca aatcatactt 120
acagattctc atcataatac aattccttac ctacaaatct acactataca actacctacc 180
actactttca taacaccttc ataaactaca ccgaaaacct atactcaaaa atcatcctat 240
acacacacac acatatgtac ctctaattaa acttcaacaa cttatccacg tatcaaacaa 300
tgccgaaatc cattaacatc attaacccca atcatctcta ccatcatatc atcaacttct 360
actaatccc 369

<210> 52814
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D10

<400> 52814

gttggtgttg gtgctcggag agtgaggtct ttgtttcaag ctgcaaagaa gaaggcgcca 60
gtcattttct tcattgatga aatagatgct atgggttcaa ctagaaaac 109

<210> 52815
<211> 369
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-049-Q1-K1-D12

<400> 52815

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ttctgcagct agcagaaaag cactgcttct ttctaaggca tgggagtgcc gtatgaagct   180
tacaatagaa tgaagcagcc tcgccccgaa ttctgttacc tagtactaat tgcgttgtgt   240
cacgtgatag cttatgtacc tgacatattc ttttattcta attatactca ttcattctacc   300
tttcgagttt cgactgtaca tattatccac cgngtggaat ggaaggactg agttaacatg   360
tgatacgaa                                     369

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<210> 52816

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D2

<400> 52816

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aaaaataaac cccccccacc caacaaaaaa aaaaaaacia aaacaaaaaac aaaaaaaaaa   60
caaaaaacia caacaaaaaa aaaaaaaaaa aaaaataaaa caacacaaaa acaacacaaa   120
caaaaaaaca ataaaaaaaa tcaaaaaaaaa aaaaaaaaac acaataaaaa ataaaaaaaa   180
aacaaaaacia aaaaaaaaaa aaaaaaaaca aataaaaata actacaaaaa aaaaaaaaaa   240
acaacaaaaa aaaaaaaaaa taaaaataaa aaaaaataca taaaaaaaaa aacaaaaacia   300
aaaaataaaa aataaaacia aacaaaaat                                     329

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<210> 52817

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D6

<400> 52817

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aaaaaaaaga aaacaccacc acccccacaa aaacaaaaaa caaaaaaaca cataacaaaa 120
aaacaaaaac aaacaacaaa 140

<210> 52818
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-049-Q1-K1-D7

<400> 52818

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attgcatact tgatattata ctattatttg agcttgtctt attgtactct tatctgttct 180
tatgaagggt agaggaatgt gtttgggggtg agtaattttt ttgtgttggt tcctctatcc 240
atggccatgg aggagcaaag gaggccacct agctcgaaga tagcgccagt gtccatgaag 300
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aggaaaactg cgctgcaaca aga 383

<210> 52819
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D8

<400> 52819

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aagtgttctt gctgctgtat caaggggtgcc ctctccttca gttcctgcaa caactgttcc 180
tgcagtacag gtgaatgggg gtcacgacag cactgttgaa gatgtacctg caccaccact 240
gctcatgcca ggcctaattg atttgatgag ttgatccac gtgaatctgt cccagattgt 300
tcccctcttg taaaccctgc attaatcct aatagcttgg agaaggattt gtttggatca 360
gatcctatta gtttcg 376

<210> 52820
<211> 198
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-049-Q1-K1-D9

<400> 52820

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gangggacct ccaagcagca ctccggcgag atcgaggctt ccgccgctac cccatacgag 120
ctgcagcgcc gcctcgtcgc tgccgcctcc gcggccgact ctgcctactg cgtccagtcg 180
tcctatctca tggtcacc 198

<210> 52821
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-049-Q1-K1-B8

<400> 52821

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accatctcgc cgccgccaca ccacaatcca caaccgctc aagcgaagca agcaatggcc 120
ggagtcggat cgaaggccct cgccgttgcc gccgttctgg cggccgtctc cttctcggtg 180
gccgccgcgg ccgaggcgcc cgcgccccagc cccgtctccg tcgtcgtcgc gtgggttttt 240
gttttttttt tttttttttt gttttttttt tcttgttttt tttttctttt tttctttctt 300
gggtgggggtg gtttttttct tttttctttt ctcttttttg tttttttttt gttttttttt 360
tttttttttt tttttttttt tctttttttt ctctttttct tttttttggt tttctttttt 420
ttttttggtt tttttttctt tttttttttt tt 452

<210> 52822
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H7

<400> 52822

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agtaataact aaagtaatgg ccgagttcac gtaacgtgct cgccgaatgt acgatcgggt 120
gtaccggccg gacgtatgta caagcccagt gcaat 155

<210> 52823

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H9

<400> 52823

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aaaaattaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattccc ctttttttcc aactttttta 180
aaaataataa taaaaaaccc tttaaaccxaa taaaaaaaatt attatcccc tctccaattt 240
tttttttttc caaaaaaaat aatcaaactc cttttccttc tacttttttc ttttctctct 300
tttttatctt aaaataaaat cttttttatc ccccttaaag aactcttaaa atattttttt 360
tttttctct 369

<210> 52824

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A1

<400> 52824

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tcttttgaga ggtcttttagg gttgaaagggt acttcgaaaa ccgaaccagc gtctacaggc 180
ctaagaggga tttccattga aactcgtcga tgatactaca gttttctttc cccatctgtg 240
ccggttgtgt tgtactacca ctaccagtga cagtgagtga cttctaagct attcattttt 300
ttaactggag aagttgatat catgataatt aaaaaaaatt ggggtgtgtat tgaactatta 360

<210> 52825
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A11

<400> 52825

tctgacacat cgcaaaaaaa aaaaaaaaaa tttattttaa acaaaataaa aaaactaaaa 60
 agaaaaaatt aaataaaatt acaccaataa cctaattata tttaccaaaa aatttttcaat 120
 actagcaa at caatataatc cactaattct ttggactata ccacaaattt ctcacacatg 180
 ctatattttc acgaccacaa aatactctat ctaatccggc tctatataac aattcacact 240
 aatcatcata tcaccaatgt cagtgtcat actgttcac tggttggcac ttctctgtca 300
 aatccttatt tttctttcgc atccactcta aatgggtctaa ctgtaccact gcatgtcctt 360
 tcaa atcatg aactgtcttt atttatcaaa tctgtaatt 399

<210> 52826
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A2

<400> 52826

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 gcactgctgg ccaggaaagg ttccagagtc tcggcggtgc attctaccgg tgagcagatt 120
 gctgtgtcct agtctatgat gttcattcta tgaaatcatt tgacaacctg aataactggc 180
 gagaagagtc tctaattcac gctagcccat cagatcctga caatttacct gttgttctcg 240
 tgggtaacaa agttcatgta gatcgtggca acag 274

<210> 52827
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A4

<400> 52827

tggaaacccat gctctccaaa attcacatga attagattgg tcaccaaata aaaaaaggca 60

gagctcattc cagaattcta atgtgaggaa ggtgtacgtt tgatcatttg ttcattccatt 120

gtatatgaat catgcactaa attaatacaa gttttaacat atatattcaa aggctagaaa 180

tctgaaccta agtatgagca cccgataggg catgttgtcg taggggtgtgt ttgactatgg 240

tacatctgga tgaacggatg tatgctaagt tgaattgtat tttaataaaa ggtgtttgat 300

gcggatgtat gaatggatgt aaaaaaatac agagattatt tgggtgtatg agttaatgca 360

at 362

<210> 52828

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A5

<400> 52828

ggagcgcggt tgcttctggt ccaggtttct tctctctggt ccgcgtgcga tcgagtggat 60

gaaaaggagg aggaggatgg cgaggaattc gttcaagttg gagcaccctc tcgaaaggag 120

gcaagctgaa gctaaccgca tcaaggagaa ataccctgac agaatccctg tcattgttga 180

gaaggccgag aggagtgaca tcccagacat tgacaagaaa aagtaccttg 230

<210> 52829

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A6

<400> 52829

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cgatgtacta gtgcatcacg tgatgatcag gtgacagttc gagatggata ttacacgaat 120

gaagcacaag aaggatcatg gcatgctcag aatgagccag gccttctgta tactgaagga 180

attcacaat tcatttgcg caaaaacatt tgcgacgaac agaccgttcc agcagaacac 240

agtagacacg atgtatgtca gggaaaacta gaagaaatta aacgaggga agaacatatc 300

aaaatgcccc a

311

<210> 52830
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A9

<400> 52830

gtgtgaagag gcatttacgt ggccttgag caatccctat agggaggcct tccattcacc 60
gttctccaat tgacctgaaa gggaaggctt atgagttgct gcgagagaag gcttcaagct 120
tcctccttga cgacttctac aggactccag gaggcattca gttcgaaggg cctgggttcag 180
atgcaaagcc catcacgctg accattgaga accaggacta catgggtgac attgagatac 240
tgaaagagta ccttggaag gttaggacca tggatgaagc aggggtgctc cgggagatcc 300
tgaaggcggc gatcagttcc atgggtgctg tgactgatgt gctgactgtg atgtcccacc 360
ccctcaacgc cgagctgccc ctctaccatt ttaagtgagc gagggcatca gtctgggttag 420
tattcctaga agtgttttga aa 442

<210> 52831
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B1

<400> 52831

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aggaatcatg agtcctgttc tacttctcga catgagcaaa catggagaca atgcaaaagg 120
gctaactctt gcaacaacgt cctttgatgg ttatttatat ttgattgagg gatcgagtgg 180
ctgtgcagat gttgttgaca ttggagagac ctctacact atggtttttg ctgataacgt 240
ggatggtgga gatgaccttg atcttattgt taccactatg aatggcaacg tcttctgctt 300
ctccactcaa tcaccacacc atccgcttaa ggaatggagg tcatcaaacc aaggaaggaa 360
taatgctgca tatcagtaca ac 382

<210> 52832

<211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-B11

 <400> 52832

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 tgcttccagt cagaggtcca aaatatcaaa gggatgcaga aagatgtggt tgcattgatg 120
 agtaccttgc ctggaaattg gcaggatata caaacatagt tgtactttac ttgatctcga 180
 tgacattgga ctgcaaatat atgcacaaca attgcctcat gcacacacac ataatggggc 240
 cgcgagtgtg agctcaacca tcgtctctgg tttctttcta ggtggagatg gttaaaattg 300
 ctggtcactt ataattacca gcattctata cgtcattgct gttcatcgcc aacttattca 360
 agtctgaaag tagaactctg aggagatggc tgagaaagag gatattctaa tgcagagata 420
 tgagatggga aag 433

<210> 52833
 <211> 184
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-B2

 <400> 52833

tctaccact catcctcgat attcttacta taaaatatca catatttaac ccaacctttc 60
 acatatacaa cacttggcaa tttcaagatt tctatactac tcctctacat tatcaaacat 120
 ttatacaatg caaaaatact aactcttgca acaactttct tttaattctta tttatatatt 180
 attt 184

<210> 52834
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-B4

 <400> 52834

tctcctattc cctctccacc cactcttctt cgccagtcca cccattccat tccacttctt 60

tctctcaciaa tccactctaa ctcacactga cctacactac acattcatat catgcttaca 120
 ctttcccat ccccatcctc ctcacatcca acccatctc 159

<210> 52835
 <211> 344
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-B6

<400> 52835

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 ttgtctccca ggtcatctca tccctgacgg cttccctgag gttcgatggt gctctgaacg 120
 ttgatgtgaa cgagttccag accaacctgg tgcctaccc gaggatccac ttcattgcttt 180
 cgtcctacgc tccagtcatt tctgctgaga aggcctacca cgagcagctg tccgtggctg 240
 aaatcaccaa cagcgccctc gagccatcct ccatgatggc caagtgcgac ccccgccatg 300
 gcaagtacat ggcattgctgc ctcatgtacc gtggtgatgt gggt 344

<210> 52836
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E2

<400> 52836

tgcaatattg ataacctgaa aaatacatat gttttaaaat gtacaaccat ctaata 56

<210> 52837
 <211> 51
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E3

<400> 52837

ccttattccc ggctctaccc actcttcttg gagtctttct cctccctctc c 51

<210> 52838
 <211> 320

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-E5

 <400> 52838

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 gccaggcaat gtataaccag cctgggtgcca gttctgctgg gcctactcct ggtgctgagg 120
 ccggacctac gcctggtacc ggaccaacgc agaatgattg ggatgtcatt gacgcagact 180
 tcacagatag caattggggg gtgattgatg catggccatg tgttgagcaa ggttggcggt 240
 aaggagtga caaattgttc cttttttgtg ttgggattgt tactataggc tatctagcat 300
 ggagttgttt agatagtttt 320

<210> 52839
 <211> 122
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-E8

 <400> 52839

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 cttgacttcg tcggggcagc ataagctgta agagcccata tcccctgggtg gcggctcctc 120
 tt 122

<210> 52840
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-E9

 <400> 52840

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 ggaaaaccta cctgtcagcc ttcctcacct gtcacagcag atttgttcaa tgcggcgaaa 120
 agtttgaggt tcggatcctt ggggccattc tcattgggac ttccctcaac ctcgacacag 180
 tttgaggaag aattcccagc gcttcctact agaaagagag ccgaaggccc catttcagtg 240
 gcgcccagcg ctaaggctgt tgaaaccaa agcaggtcag aagagagtga agagatgttc 300

cgactgagaa atgaatctga tttccctccc ctccaagctg gctgccgctg agactgacag 360
gacgtcgaga taatccatgc taatcgtaat ggta 394

<210> 52841
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F11

<400> 52841

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gagtcaggcc acctggacca ccttctccat cctcagtttg agaaccgctc ggcgtacaag 120
gatcaagtca ttgccactgg tctgccagcc tcacctgggg ctgctgtggg ccagggttggtg 180
ttcactgctg aggatgctga agcatggcat tccaaggga aagctgctat tctggtaagg 240
gcgagacca gcccttaaga cgttggtggc atgcactctg ctttggggat tcttacagag 300
aggggtggca tgactt 316

<210> 52842
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-048-Q1-K1-F12

<400> 52842

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attgaaactt cagaatctca nacgcggtcc ctaggttttc cctggagaaa caactaaaca 120
aatggcatca tcaagcttca tgggaaagag aaactgccgt agaatacctc ccagaggaga 180
angaaaggtg aaaaggaaaa aagtaaagcc tgtaaagctt tgtcactgat aaattaaaaa 240
ggagctgaga aggaaacaaa aagagaagaa gcaagaaagg cacattaaag aaaaaagaga 300
gaacccggaa gcaaaaaaga g 321

<210> 52843
<211> 156
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-F2
 <400> 52843
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 tttattttca gggtgacagc aggtctagca tctttgatgc gaaggctggc attgccttga 120
 acggcaactt tgtgaagctt gtgtcctggg acgaca 156

<210> 52844
 <211> 139
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F7
 <400> 52844
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 cagactcaca atcgccggga gccaccgcaa ttcccggcac acgtctgccg tcgacgagtt 120
 ggagtactgc gagttgtgc 139

<210> 52845
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F8
 <400> 52845
 gctacgcctc gtcgtcatgg gccgggtcaa gtacatgagc gggccattca ggaccggatg 60
 gctcgggcta tacctgcgct gcgatgtcac cgtcggcctc tgggtggacg ccaccgcggg 120
 cgacgacgga gccggggacg tgccactgct cgag 154

<210> 52846
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F9
 <400> 52846

aaaaaaaaaa aaaaaaaaaa attaaataaa aaaaaaaacg cgcggccccc ttggaaagta 60
 tacattatta catcctccat cctacaacat aattattcta taatatcacc aaaaaaaaaat 120
 aaactacccg ccattttaca acaacttcac tactaaaaaa accccatcac caaacaaaat 180
 aatcttctag caaatcatcc ttttttcacc tgctttcata ataaagaaga cccaccaa 240
 catcattctt aacaacattt catcactaat aataaataat 280

<210> 52847
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G1

<400> 52847

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 gagtgtggga aatcaaagca tgctggtgtg gaaaacctgg aagacaacgg tgttcacctg 120
 tctcctgatg aggatcaaaa tgctagtcca aaacaaacta ctgtaaagaa attggaagtg 180
 tccccctcag tctccacacc aatttcttgg gttaaaaaat gtgctcaggt gatattcaaa 240
 cgctctccag agaagagtgc tgatcccaac aatgatatac ctccaaagtt gggaaatgtc 300
 aatgactgta cctccttagc tactgcctat tcagatggat tgtttgcttg tcacctggaa 360
 aatggtgctg agaaagta 378

<210> 52848
 <211> 265
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-G10

<400> 52848

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 ggtcctctgt gcctcaaaan gcccggtcgg cctttatcct ggtgctatct cagttatggc 120
 aagtagtttc atggcaagtt gaacatctta gcagaaaagt gccatgaata gtatgtagta 180
 tgtacgctta tgtttgtaac aatataaaaa tatatatata tcattagctg caaaaggagg 240
 tcgttttctt agaccttatt atttt 265

<210> 52849
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-G12

 <400> 52849

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 cttccttttt aaaaaaacac aaacctcccc cccaaccncc ctctataaac tatccaacct 120
 aactcaccca ttcatacaac tacaaaatca cctatacaca aaccaaaaac aaacccattt 180
 accaattact accaacatct taccaataaa aacccttacc taactcacct tattctcc 238

<210> 52850
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-G3

 <400> 52850

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 gagcaaggac gtgggcaagg gcttccgctg catccgcatg gtcaacaaca cccgcctcaa 120
 cttegacgcc ttccacggcg acaaggacca cggcggcgtg cacgactgca ccgtcgtcgt 180
 gctctgggag tgggtgcaagg gcgagaacca gagctggaag atcctgccgt ggggtcccga 240
 ggccaactcc tccgcgggcc acgcgggagg cccgcacgcc gtgcgcgtct tctgcaaagc 300
 cggctgcgag gactacagcc tcacggtgcg catcggcacg gcgtgcctgg cgcccatcaa 360
 cc 362

<210> 52851
 <211> 52
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-G6

 <400> 52851

aatagaatgg cagaaaacct aaacgttagg atggcgaaaa gagaaaagaa cg 52

<210> 52852
<211> 121
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-048-Q1-K1-E12

<400> 52852

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cactctagcc agcaccaacc ccccaaccgc cattgcnaac accttcctgg tgcccataaa 120
c 121

<210> 52853
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G7

<400> 52853

gctcgcgcct ttcagccttg tctaggagga cgcgtcgatg ctgaggagga agagctagta 60
cattggcaag ggcttccact tcttcctcat ggtcaacaac gcccgacctta acttcgacgc 120
cttccacggc gacaaggacc a 141

<210> 52854
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G9

<400> 52854

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atgtcactcg ttattgttct ttgctggaac aagagtatct tccttgccct tggtttccta 120
cttttctttg gcacgatcga agtaatctac ttctcagctt cccttggtcaa gtttcatgaa 180
ggtgcttggg ttcctattag tctctccttc atatttatgg tgatcatgag tgtctggcac 240
tatggcaca taaagaagta cgagttcgat gtgcaaaaca aggtttcagt aaactggctc 300

ttaaacccttg gcccttcact gggcattgta cgagttcgag gcattggact aatacatata 360
gaactaatgt ctggaatccc aactatcttc tcccactttg 400

<210> 52855
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H10

<400> 52855

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ccgcgcgcgg tccccgtccg gcgtgatcca cctcaccgac acctccgtca cccgtttcct 120
ctccgcccc tccgcgcgcc gccctactc cgtgctcgta ttcttcgacg ccgcttcgct 180
ccactcaaag cctgacctcc acctgcccc gctccgcacc gagttcgcgc tcctctccgc 240
ctccttcctc gtcacaacc ccgattccgg cgacctcttc ttccgacaca tcgagttcgc 300
cgagtcgcag cactcctttc accagtttg tgtcaactcg ctgccccata tccgcctcat 360
ccgttccgat cac 373

<210> 52856
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H11

<400> 52856

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aggaatacac aaataaaaaa accacaccaa acaccaaacc aacacc 106

<210> 52857
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H3

<400> 52857

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gggtctaccc tttacttgct gatctttatc atatatttgc tgatattcca tcgattggta 120
 gggctatggt ttctgctcag aagttgctta cacaagttca catgggggag ccaatcagca 180
 gtgatatggt gtctgatgtg tatgtattta gaattgcaat agaagccctc atgatgggct 240
 taaacagtgc agccagggtcc caaattgata ccggagatta acatgggtca aatgatctgg 300
 gattttaaa 309

<210> 52858
 <211> 159
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H4

<400> 52858

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 cgggtacacc tttgatgttc acatcctttc caatgctagc tgcaccacaa actgtcttgc 120
 tccccttgct aaggtcattc atgacaactt caccattgt 159

<210> 52859
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A9

<400> 52859

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 acaaatttac atgctgggtc tgttcaacct gtgaatctcc taaggtcaca gcgtttttat 120
 ttcattctat attatatttc agtctggact aatgttgaga tctccatag tatctacgct 180
 taagcatttt tcatttgtat ttaccatggt ggtcaattgg gatatttggt tcttgtatgt 240
 tagcatgttt gaaccatagc aattgggtgga cgtgtgtaga gaagattgca aaactgcagt 300
 atgatggatt ccactattca tcaaccgaga tcatggcgcg cttcaatcgt ggctacgctg 360
 aatgggaatt gatccgttat ggctcgtggc 390

<210> 52860
 <211> 367

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-B10

 <400> 52860

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 ctagctgcga ctgctaccgc ttccccacgc cagcatagca tgcaatatgc atatatatgg 120
 tcgacgacga cgatggcaca cggccggcag caccaccgcc cgccgccgcg ccggtccacg 180
 ctatgcatgc atgcagctac gtttcattta ttaccaggtt ctntgatatt cttatatata 240
 tgttgacgac tatacatatt agctgatctc gtttgatcatg ttattatgtc gtgctcattt 300
 aatcagagag tgagagagag gatgaataat tcaatctgct cgacagacat atacgctgt 360
 cattgga 367

<210> 52861
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-B11

 <400> 52861

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa tatattaaaa atatacattt ttataatata aaaaataaat tttttaattt 240
 atatttaata ttttattttt tattatttta tttatattaa tattttttata tcttttaggg 300
 ggtggggtag ttatttatta ttaattatat atttggtgtt atcccttcaa atcataaaaa 360
 acacaaaaaa ttacatctat ttctttttat ttttaataaa ttttataatt atatccttaa 420
 aattaatttt ctctatatct atttta 446

<210> 52862
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-B9

<400> 52862

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taaaataaaa aaaaaaaaaa acccaaccca aaaaaccccc ccaacaaaaa aaaacccaac 120
aaaccaaccc caccaaacca caaaaaaac ccacaaaaaa acccccccaa aaacaaaacc 180
ccaccccccc ataccccccc cccaaccccc aaaaaacccc cccctcccc caccaaaacc 240
ccctaccccc catcccccca caccaccact cctaaaaaac cccaaaaact cccccccatt 300
ccccctgcc caccacaatc ccacccccaa aaatccccac aaaaccccc cccataccct 360
cccctaaaac cccccccccc cctcctctcc cccccccca cctaacccca ataccccccc 420
cccaaccccc caaccccc 438

<210> 52863

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C10

<400> 52863

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gccgcacgac aacaacatca tgctctggaa cgccgtcata ttccggccgg atgatacgcc 120
gtgggacggt ggcacgttca agcttacctt gcagtttaca gaagattacc caaacaagcc 180
accaactgtt cgatttgtct ctaggatgtt tcaccaaata atatatgctg atggaagcat 240
ctgtttggat atcctacaga accagtggag tcctatatat gatgttgctg caattttaac 300
ttctatccag tcctgtgtgt gtgatccaaa cccaaactcc cctgcanact cagaagcagc 360
aagactgttc agcgagaaca agcgggag 388

<210> 52864

<211> 235

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C11

<400> 52864
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 agctgccggc ctatgacaac aagaagatcg aggacgcat cnacgcggcc atcagctggc 120
 tggacaccaa ccagctcgcc gaggcggacg agttcgagga caagatgaac gagctggaga 180
 gcctattcaa ccccatcctc tccaagatct accatggcac ttatgaacac atggg 235

<210> 52865
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-C12

<400> 52865
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 tattcttctc atcttttaaat caatcttttt tttttttatt ctttcttttt attttatttt 180
 ttattttatt tttttatttt cattatttct ttctttatat ttctttctat attttcttta 240
 tttttatttt attatttttt ttattttatt taattttttt atttatttta atctaataatt 300
 tcattttctat tcttttaatt ttttcattat aattatcttt taattttttt ttttttattc 360
 taattttttt ttatttttaaat ttttcttttt attttaaata ttaatactat tatttatatt 420
 tattttatta tctattta 438

<210> 52866
 <211> 144
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-C2

<400> 52866
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 acatcagggg cactttgcat ctggggctgn ttcttcgacc aactttctcaa actgagttga 120
 tcgctttactc tgatgtcgat tggg 144

<210> 52867
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-C3

<400> 52867

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 gcgtttactg agcgtacgat cctccaaata tttttggagg atgagattaa tggtccttct 180
 ggtttcctaa aggaggtact tggcttgctg agatctctat atgtcatggt gaacatattt 240
 gaatccacat cttttctaag atacgggcat ttatcacgtg acaatg 286

<210> 52868
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C9

<400> 52868

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 cgccggctcg tggccatggt ggctcagcag ctccccactt catgtcctcc acggtgtgca 180
 gccggcagag acggtgcgcg ggaggctacc attctgtcgg taacggtaag ccgaggctga 240
 cggcgggtgc ggtgaacaag taccgcgcgc cggctgctga nctttatggg agccagaacg 300
 cggctgccag ggctagcagg tcggcgtcag tggcactcct cgccgggtgtg cacaagttga 360
 gtgtgcttgc gtgtcaac 378

<210> 52869
 <211> 247
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-D10

<400> 52869

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tntttttttt tttcttttct tttttttttt ttttttcttt tttttttttt tttctttttt 120
tttttttttt tttctttttt ttttttcttt tttttttttc tttttttttt tttttttttt 180
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240
tttttttt 247

<210> 52870

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D12

<400> 52870

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ata 63

<210> 52871

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-D3

<400> 52871

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catacagtgc catgtcgggt atgttccttc aggtggaaga gttggttggt taagcaagct 180
gtttagagta tctgatgtct gttctaagag attgcaaaac ccttaaagac tttctattga 240
aatctgtggt gcactgcatg cttgcattca acctgcttgt gtggctgttg c 291

<210> 52872

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D6

<400> 52872

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accgcccctg acgtggtgac tgcgtcctgc tccgctctcc gtgcgccacc ctgaagcggc 120
gaggcgagga ccttcaagca accgccttcc tggttcggct gctaccttga ggcctttctt 180
tccaccggtt caacagattc tgatccgaac ggccaaaggc 220

<210> 52873

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D9

<400> 52873

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cgctccacta caagggtcc accttcacc gcgtcatccc cgagttcatg tgccaaggcg 120
gcgacttcac ccgcggaac ggcaccggcg gcgagtccat ctacggcgag aagttccccg 180
acgagaagtt cgtgcgcaag cacaccgcc cgggtgtgct ctccatggcc aacgccgggc 240
ccaacaccaa cggctcccag ttcttc 266

<210> 52874

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E1

<400> 52874

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tgatggttcc ttactacaa gctttattac cacaattggt attgacttta agatacggac 120
aatagaattg gatggcaagc gtataaagct acagatttgg gatacagcgg gccaaagaacg 180
ctatcgact attaccactg cgtactaccg tggagctatg ggtatcttgc tggttaatga 240
tgtcaccgat gaatcttctt tcaacaacat tcgaaactgg attcggaaca ttgagcaac 299

<210> 52875

<211> 275

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-E10

 <400> 52875

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 caaataacaa aaataaacca aaaaacaaaa aaaataaaaa aaaacaataa acaaaaaaaaa 120
 atacaaacaa acaaacacaa aaaaaaaaaa ccaaaacaaa aaacaaaaaa aaaaaaaatc 180
 cacacacaaa aacacacaaa aaaacaacac acacaaacaa aaaaaattca aaaaaaaaca 240
 aaaaaaataa aacaaacaaa aacaacaaca tacac 275

<210> 52876
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-E11

 <400> 52876

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 tcgcctgaag ctaagcaagt tgtgaccaca tattcatt 158

<210> 52877
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-F11

 <400> 52877

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 cgttaaggcc taccgcaagg canctatcaa gaaccacccc gacaagggcg gtgaccccg 120
 gaagttcaag gagctcgac aagcctatga ggttttgagt gatccataga aacgtgagat 180
 ttatgatcag tatggtgaaa attcccttaa ggaaggaatg gttgttggtta atttctttcc 240
 taattccttt ttcacaaaca tttctttctt cataattatt tat 283

<210> 52878
<211> 70
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-F12

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ncgccggccc 70

<210> 52879
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F4

<400> 52879

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ccgaaggcat tatctcctaa cttgaaagcc ataacaaact atcttcagtt tgcaattgag 180

tgatgtttcc agaggttatc tggcacatga cagtattgct cctttttttt cttctatggt 240

tgtacttgag ttctgttttc gtatatgcac tcttctgttt actttctttt atgctattca 300

tttattttta atgttttttt ctttttttct tttttgtttt tttctttaat ttttttattt 360

ttattttttt tttattttct tttttttatt tttttatttt tttttttttt tttttctttc 420

tttttttttt tttttttatt ttttttattt ttattttttt ttttttttta tttt 474

<210> 52880
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F5

<400> 52880

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cttaccatca acgccttcgg ctgcgggcgtg gagggcgccct acatagtcct ctacctggcg 120
 tacgcgccgc ggcgggcgcg cctgcggact ctggcctact tcttcctgct ggacgtggcg 180
 gccttttcgc ttcgctggtt tcttttctct tttttttctc cttttgcttt tcttcggttt 240
 gttctttggc tttttttttt tgtttttttc ttgttctttt ttcttttttt tttttttttt 300
 tttttttttc tgtttttttt ttcttttttt cttttttttc ttttcttttt tttctttttc 360
 tttttttttc tttttttttt ttcttttttt ttcttttttt ttttcctttt ttttttgttt 420
 ctttcttt 428

<210> 52881
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F7

<400> 52881

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 ccgcctgcat atgaagaagt caatggtata ttcatgagga atacggtcgc atagtgtggtc 180
 gagaccgtgg agtatttcct ggcttatgca atttaatcat atcgagcata gagcgacact 240
 gatctcaacc tttcagcttg tgactacata gttgtttcta aaggtttctt acaattgatg 300
 gtccgattgt taattcattt ttagtgcttt ctttttcttt tacttcttca ttttttattc 360
 tttttctttt ttttctttgt tttttttttc tattttttta tttttttctt tttttttttt 420
 attttttttt ttgttttttt 440

<210> 52882
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F8

<400> 52882

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 aagaaaaaga aaaaattaaa catataaaaa aaccaaccc acaaaaacaa aaaaaaacaa 120

caacaaa

127

<210> 52883
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G1

<400> 52883

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ttaaatcttt atcaac 76

<210> 52884
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G10

<400> 52884

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ggctagaaca attaaaacaa gccagtgaca aacagcagag atacacatga ggtgaagctt 120

gagcaaggcc ttcaagtgt taaggttttc aaggatcatg tgtgcaagac atctatactg 180

gatgactttg gcttttacga taatcgtgag aagatgattc aatataggaa agcaaagca 239

<210> 52885
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G3

<400> 52885

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cttcgtcagc cgcgtcctcg ccggcaaggc cgtctcgccg aggagggccg tgcacgcctc 180

ggcgtacgac atgaacctgg aggaccaggt gcgcccggcg ttcgtgc 227

<210> 52886

<211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-G4

 <400> 52886

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 aacacaaata aaacataaaa aaaaaaacac acatcac 97

<210> 52887
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-G9

 <400> 52887

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 caagtgctgt tgttatgcgg gatagtgatg gaaattctag gtgttttgga tttgtcaatt 180
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 ataaggaact gtatgttgga agagcacaaa 270

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 <211> 359
 <212> DNA
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 <223> Clone ID: LIB3079-047-Q1-K1-H4

 <400> 52888

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 ctaacgcgtt tgggcagaaa ttcgttgctg tcaccatatt ttgactgttg tttttttctt 180
 tttgtctttt gatttttttc ttttttttct tttttttttt attttttttt ttttttttat 240
 tttttttatt tttttttttt ctatttttat ttattttttt ttttttttta tattttattt 300
 tttttttttg ttttttttat tttttttttt ttattttatt tttttttttt cttttttttt 359

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a continuous function and that it satisfies the functional equation $f(x+y) = f(x) + f(y)$.

<400> 52889

<210>	52890
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<212>	DNA
<213>	Zea mays

<400> 52890

<210>	52891
<211>	359
<212>	DNA
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<400> . 52891

22646

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 actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt tctgaggat 359

<210> 52892

<211> 124

<212> DNA

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<223> Clone ID: LIB3079-048-Q1-K1-A11

<400> 52892

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<210> 52893

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A12

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 gatactgaca ctaacaattg catccaatct gttctctctt cataaagaaa ccacccctcca 180
 aatctaattc ttcttctccc tccaaaactt ttacatcttt tcaactccata ccccatcttt 240
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<210> 52894

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A2

<400> 52894

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 gatgcgtttg cgtgtatccg tataaattaa aggcta 156

<210> 52895
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A5

<400> 52895

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 cggccatggt caggaggaag gctttcttgc actggtacac aggctagggt gttgatgaga 180
 tggagttcac cgaggcatag atgtacatga acgacctggt ggccgagtat cagcatgtct 240
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<210> 52896
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C11

<400> 52896

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 ggaggctatt aaaaggaagg ctgagagaaa tgcaaaaatg aaagctgaga tgaaggaaaa 180
 gactatgaga atgttctctgg tttctcagaa acacattggt tacaccgaac cacttgaaat 240
 acatgctgga actactattg atgtgcttta taatccttct aatacagttc taactggaaa 300
 gccagagggt tggtttcgat gttcatttaa tcgt 334

<210> 52897
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C2

<400> 52897

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ttttttcttt tttttatttt ttatatattt attttttttt tttttttatt ttttttttat 180
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<210> 52898

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C4

<400> 52898

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ttcttacctt gtcattctgc tacttccagt tctttatagc ttacagctca tcttcaatat 180
acttggtttt ctcttctctt tttcatcttt tgcttttact ttattttttt ttttatgttt 240
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ttttttttta ttttatattt tttttttttt tttaattata tttttttttt tttctttttt 360
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<210> 52899

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C8

<400> 52899

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gattgtcatc ttccacatca taaccttcaa cactgacatg cattctttaa atcttctatt 120
ca 122

The following table shows the results of the regression analysis for the dependent variable *Perceived Organizational Support*. The independent variables are *Organizational Commitment* and *Organizational Identification*. The table includes the regression coefficients, standard errors, t-statistics, and p-values for each variable.

<400>	52900
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<212>	DNA
<213>	Zea mays

<400> 52901

<210>	52902
<211>	425
<212>	DNA
<213>	Zea mays

<400> 52902

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 <211> 100
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D7

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<210> 52906
 <211> 402
 <212> DNA
 <213> Zea mays

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 aaaaaaaaa aaaaaaaaa aaaaaatcaa tcaataaaaa tacataaaaa aaaaaaaaa 180
 aaaatataaa aaaatttaaat aaaaaaacaa tataaaacaa aaataaaaaat aatataataa 240
 taaataaaat aaaaaaaata ataaaaaatc aaaaaaaaat taaaaataaa ataaataata 300
 taaaaaaaa aaaataaaaa taaaaataaa ataaaaaaaa tatataaaaa aaaaaaaaac 360
 aaacaaatta atataaataa ataaaaaaaa aaaaaaaata aa 402

<210> 52907
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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 caccttgcca ctgagagaga aggcgtctta taatttgata tgaacaagaa tcaacaatgt 180
 tcattattaa aaaatattaa caaacatata tatttatttt ttattattat tatctaata 240
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 <212> DNA
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<223> Clone ID: LIB3079-047-Q1-K1-E3

<400> 52908

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<210> 52909
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 <212> DNA
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<223> Clone ID: LIB3079-047-Q1-K1-E4

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 ctaaagatat tataactcat tttaaagatc tacctactat tttcatcttt tttttatttt 180
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<210> 52910

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 2. *Staphylococcus epidermidis* (Staph. epidermidis)
 3. *Staphylococcus saprophyticus* (Staph. saprophyticus)
 4. *Staphylococcus carnosus* (Staph. carnosus)
 5. *Staphylococcus sciuri* (Staph. sciuri)
 6. *Staphylococcus hyacinthi* (Staph. hyacinthi)
 7. *Staphylococcus albus* (Staph. albus)
 8. *Staphylococcus citreus* (Staph. citreus)
 9. *Staphylococcus gelae* (Staph. gelae)
 10. *Staphylococcus lentus* (Staph. lentus)
 11. *Staphylococcus marimoritatus* (Staph. marimoritatus)
 12. *Staphylococcus pasteurii* (Staph. pasteurii)
 13. *Staphylococcus saprophylus* (Staph. saprophylus)
 14. *Staphylococcus simulans* (Staph. simulans)
 15. *Staphylococcus vitreus* (Staph. vitreus)

<400> 52910

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<400> 52911

<210>	52912
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<400> 52912

22654

<210> 52913
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<212> DNA
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<212> DNA
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<223> Clone ID: LIB3079-046-Q1-K1-H5

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tatacact 128

<210> 52915
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<212> DNA
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<223> Clone ID: LIB3079-046-Q1-K1-H9

<400> 52915

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<210>	52916
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<400> 52916

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<400> 52917

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<400> 52918

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<210> 52919
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<223> Clone ID: LIB3079-047-Q1-K1-A3

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gccggcggtg aactactggt ggccgctgcc tgctaactgt tcgagggccg cgtacgggag 180
gtccacgcc cggtaccgta agaccttctg gatcgcgcac cacgcgccgg ctctgcttta 240
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agggtgggtg tttttacttt tttattctat tttttttta tttttttatt ttttattttt 360
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<210> 52920
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A4

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 ccacgtcgct cattcagatc gaggtggtga acaccattta tgacttcact ttttctcttt 180
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 tattgttttt tttttttttt attttatttt tttattctat tttatttttag tatttttttt 360
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<210> 52921
 <211> 79
 <212> DNA
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<223> Clone ID: LIB3079-047-Q1-K1-A5

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<210> 52922
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<223> Clone ID: LIB3079-047-Q1-K1-A7

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426

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<223> Clone ID: LIB3079-047-Q1-K1-A8

<400> 52923

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aaaaaaaaaa aaaaaaaaaa gaaaaagaaa aattaaaaaa ttataaaaaa aaaaacaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa 180
atataaaaaa taaaaataaa aaaaaaaaaa ttataattaa ataa 224

<210> 52924
<211> 62
<212> DNA
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<223> Clone ID: LIB3079-047-Q1-K1-B1

<400> 52924

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<210> 52925
<211> 255
<212> DNA
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<223> unsure at all n locations
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tcaacagaag aagacgagga tgtcgggatc caaggtgtac accctcgagg aggtggctta 180
gcacaacacc aaggacgact gctggctcgt catcggcggc aagggtttta atgtgaccaa 240

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255

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<212> DNA
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<223> unsure at all n locations
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gtttgatgta acctcaaggc ttacttacia gaattttctn accttgcata aggacctttt 180
caggttcttt taaaacatct tcattttctc tttctttttt tattgtttta ttttttttta 240
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<210> 52927
<211> 287
<212> DNA
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<223> Clone ID: LIB3079-047-Q1-K1-B12

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aaggttacct gttgcctggc ctgccccgcc cttctccctt ggccctcttc ctttctcttc 180
tccccgcgcg ggtgtttgcg cgtgtttaga gggccatatg ccacctgtaa agcttgaaca 240
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<210> 52928
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B2

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73

<210> 52929
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<212> DNA
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<223> Clone ID: LIB3079-047-Q1-K1-B4

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<223> Clone ID: LIB3079-047-Q1-K1-B5

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<223> Clone ID: LIB3079-047-Q1-K1-B6

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 gctgtattca atgttgttgt tgagatcaca aagggaagca aagtcaaata ctagcttgac 240
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H12

<400> 52932

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 gcttgacaac ctgggtcgtc ttagccagca tcactttctg ttattcaagt tcgctaacta 180
 gttttctttt tttatctatt ctttcaatta cttgcttcta ttattctctt ttttctttta 240
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<210> 52933
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B7

<400> 52933

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<210> 52934

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F12

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<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F2

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 <223> Clone ID: LIB3079-046-Q1-K1-F6

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 <212> DNA
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 <223> Clone ID: LIB3079-046-Q1-K1-F8

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 aatcacccaa tgactccaaa gaacataaga atgcaacact caaagatcct aagaaagcac 180

caaatgattc taaaggactg aataaagcgc ttaaagatcc taaagaacat taatcattcc 240
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<223> Clone ID: LIB3079-046-Q1-K1-G10

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<212> DNA
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<223> Clone ID: LIB3079-046-Q1-K1-G11

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<223> Clone ID: LIB3079-046-Q1-K1-G12

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gaagaatttg tggcttcaag atgctaccta aaatgatggg aacaaaggaa atgggagactg 180

cacaaatgag gtcttgtcag ctaacttggg gaacttgaaa ctggatgttt cttcttaata 240

ctattatt 248

<210> 52942

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cgtctagctg cagaacgctg ctcccttcat gttttccagt taacgaaagg gccagataat 240

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<210> 52943

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G6

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taggaatgca ggcattgcac atgacttcac aggaacatgc cgctccttga gccgtgatag 180

gaatttcact gaatcgggcc cattctctag tatgagaatg agacctgggc attcttctcc 240

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 <400> 52944

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 acccgcacat ggagtcaaac tgaatcggac ncattcaacc aactgagaag agaccattca 180
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 <223> Clone ID: LIB3079-046-Q1-K1-G9

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 ggcctttgcc agctcgtgc tccccgtgcc tccctacctc ttctgcgcta cccccgcgtc 180
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<210> 52946
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-F1

 <400> 52946

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cgctactccat tatctacctt cagttcgtgc tcaccattga cttaaacaac accgtatacc 180
 atatcacccc gatccactc tta 203

<210> 52947
 <211> 380
 <212> DNA
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 <223> Clone ID: LIB3079-046-Q1-K1-C10
 <400> 52947

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 gttttttaaa gacccgggga gcggacctgt tctaattctt cctctcatct ctctctctct 120
 ccttctattc tatatcatct ttttatgtct attttcattt tttttctttc tattctttat 180
 taatttttct ttactttttt ttctattact tttttattt tctatttctc ttttttattt 240
 tttttttttt tctcttttct tataatcttc ttttttccct cttttttttt tatttttctt 300
 cttattttct ttctttcttt cttttatttt cttattctct ttcttttatt tctctcttct 360
 ttatcctttt tttatctttt 380

<210> 52948
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-046-Q1-K1-C3
 <400> 52948

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 cagaatccaa acgcatcaaa aacctgtatg tgcggcaaat ctttcgcgac tgcgaaggaa 180
 ttcgaggctg catcaaacgc ttgctacatc tagagtagtc aaatattgat agcaaatcgt 240
 gatgtaactt gttatatatc tttgttctga tcaaatacag tagcttcacc acttatactt 300
 ggttcgtttc aaaatagttg gctttgtttt tattaacatg tttacttttt taatattttt 360
 ct 362

<210> 52949

<211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-C6

 <400> 52949

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 cttattctcg gctcgttcat ttcaaatttt tatatcacaa acccaatcaa acttaaataa 120
 tatctataca agaaaacatt actcattaac ttttacacaa ctccttactc ataatttcta 180
 taccctcaca at 192

<210> 52950
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D1

 <400> 52950

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 tcctatcaca attccatacc tcttgtgaat tgcataatcc ctcgaaccat ctagtttttg 120
 aactctatgt gcgcccgaag ccttctggcg aatgtcacgt ctacctgtac gttacaccaa 180
 aagacattgt ataataaaat aaagatatct aaaactataa aattcaatac attataatct 240
 attaactcat tcaaaaaaaaa atggtcacat gttttataaa atccattttt acatcccctt 300
 acatccgcct taataatttt tttaatgggt ccctaaattt aattta 346

<210> 52951
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D10

 <400> 52951

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 ggcaaacggg ccgatgcagt tcttcggctg ctcgtcgctg acgtcggtcg cgctcaatgc 180

ttcttttttt ccttcttttt ctctataatt ttttcttttt ttttattttt ttttttttat 240
tatatttttt tctttccttc ttttactctt ctttatcttt tctctttctt tttttattat 300
tttttttttt ttttttttct tttatttttt gggttattaa tatttttttc tttttatttt 360
ttctattttt ttattttttt tt 382

<210> 52952
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D12

<400> 52952

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caatcatacc attgaattct tcttcaacct tcaaattcta attcctccaa atcatgatta 180
tcaaatatct atcctgaaca ttgtatcttt taaaacttca aattccccat ataactcata 240
cttttttact actttttcta ataaatcact atacatatca cttctacata ttcacataat 300
tctcatcatt ccaaacaatt tacttccttt ttatta 336

<210> 52953
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D2

<400> 52953

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tagttcttag gatcgtaaatt taggtggtag gaatgtaggc aagtaccatt ccaaggaatt 120
gaaagagagc taagcctaag gaagagaata gcaagaaaaa aaggaaatgt tcagtgttaa 180
gcttaatgtt ttgtcacgag gacacacttc atgcataatt gttacgttct aaatttgatc 240
catttgggtct tgtgggtttg attacattac agttctgcac atacc 285

<210> 52954
<211> 230
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-046-Q1-K1-D4
 <400> 52954
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 ccgggtggat cacaccaggg accacgtagt ggtgcacgac ggggccgact gtagctgcta 120
 tcatagtgtc gcataggacg cgagccagta tctgtaagga tctatgtatg tctatactac 180
 gtccctactcg ctgtgactcg tacgcttctc ctccgtctgt gactgtcata 230

<210> 52955
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D6
 <400> 52955
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 tactacaaac gtgattctta atctccttcc cttgctgaca cctgatcagc tgtcaacctg 120
 tcttgctcat ccgtgatcat ccaacacatc tctccttccg accatcctgt atagatctct 180
 tctcttca 188

<210> 52956
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D8
 <400> 52956
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 cctcaatcag gggggcagtt acctgtatct cttctcttag ttgctctgac tctattcttt 120
 ccaagtggaa gaagaatagg atgctgatgc tcaagtgtaa gctcctgaaa atgtgacata 180
 tatctactta atcttatatt agttacttat tattttatat ttttttatgt aaattacctt 240
 tttttttatt aattattatt tatattattt tatataatat tttttctatt tattttttta 300
 tatttttat 309

<210> 52957
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D9

 <400> 52957

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 gaggccttggtg aacacacaag taattttttc taacactcgt acctcttaat tgtaactgat 120
 tgccatctca taaacttctt atcaacatct ctttttctca agtgactgcg aattctatcc 180
 tttttt 186

<210> 52958
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-B9

 <400> 52958

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 gtttcagaaa tttctcagaa atttatttaa tacttttgcca tccccttatc ttgattttct 120
 cctattcttt tttcttttta ttctttttat atcttcttct cttattctct tatttttttt 180
 tttttttact ttttttctta tttattttct tttttt 217

<210> 52959
 <211> 68
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-E3

 <400> 52959

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 aattatct 68

<210> 52960
 <211> 284
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-046-Q1-K1-E4

<400> 52960

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tgancgcttt cttcgccaat aaggagatga ggattctcat ggtcgagctc gatgcctcct 120

gtaagaccac catcctctac aagctcaagc tcgtctagat cgtcaccacc atcctcacta 180

tcggattcaa tgttgaaact gtttaataata agaacattat cttcactgtt tgctattttt 240

gttgccatga catgatcatg ccccttttga agcactactt ttat 284

<210> 52961

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E7

<400> 52961

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gtcttcatct ttcacctacc agtatatcac taattatttt cttaaaccct atatcttttt 180

cat 283

<210> 52962

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G5

<400> 52962

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ggcggcgccg acgaccggcg gcgtgaagaa gcccacagg tacaggcccg gaaccgtggc 120

gctgcgcgag atccgcaagt accagaagag cacggagctg ctgatccgca agctgccctt 180

ccagcgccctg gtgcgcgaga tcgcgcagga cttcaagaca gacctccggt tccagagcca 240

cgccgtgctg gcgctccagg aggccgccga ggcttacctc gtcggtctct tcgaggacac 300

caacctctgc gccatccacg ctaagcgcgt caccatcatg cccaaagaca ttcagctcgc 360
 ccgccgcac cgtggcgagc ggcgctagcc atcatcttcg gggatctgat gaatgtctag 420
 ttaccaaaca aa 432

<210> 52963
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G8

<400> 52963

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 ggctgagac agatgaagac agctattgat tgttggttt gtcgaacctt cctatagtgc 180
 attagaatca gaaactttgg cttcagttcc ttcgctatgg gcccttgta ctgctgcaaa 240
 tggagttttc cattgtagct gataaagtgc cgacaaggtg catccatatg tgcataaggtg 300
 gcactgaatc ggggctcact ggaccagttt gatattgtag taatatatat acagctggga 360
 gcaacataat tt 372

<210> 52964
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G9

<400> 52964

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 cgattgtttg gcccgatcaa ggagaagtac attcaagtcg ggaacgcagt ggctgtccct 180
 gttgcccggg cactgggcta ctgtctggg caagcctacc tgggtgaatc tgaagggagt 240
 gacccttttt accagctgcc ttcaagttc acctctgttg gatgactcac tgcggggcat 300
 gcgatggcct ctctgttg caccctgca cggaagtag ttgagcacta aaaggattac 360
 agatctgac tgatcttggc aacatccaac ggcaggagca ttttttgtt 409

<210> 52965
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H1

<400> 52965

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tggaaggta ttatattaat ataaataaat taaaaaata ataataatta ctttacttct 120
aaattaatcc ttatcttact ttctctttca ttcttcattt taatcttttt t 171

<210> 52966
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H10

<400> 52966

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catctcctct tcatacatcc tccaacttca tccacccac caatatcttc caccagata 120
catccatctt tcatactatc tcaataaatc cttttttcac tattcaacct tcatccacaa 180
ttttattata cctcctcaat tacattccca taaccatttc actctccata c 231

<210> 52967
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H12

<400> 52967

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ggaacttcgc tctaaacgac ccaggcttat ctgccttgc cttcatctac ataggcgcac 180
aaaagaacgt cctaccttca atcgactggc ctgccatcta ccgcatggac cctgataaaa 240
cccttcagtt cctcacgtta atcatgctgg acttcattac tctttctgac gacgccttac 300

tatacaacag cccgccctgc tatgccattt acaacagt

338

<210> 52968
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H2

<400> 52968

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gccgctcctt gagccgtgat aggaatttca ctgaatcggc cccattctct agtatgagaa 180
tgagacctgg tcattcttct ccaggctttc cactccaagc atcacctcag ctatgcactg 240
cagcagttag ggaagcaaaa aaatggttgg aagagaaaag gcagggactg ggcgtaaaac 300
ctgaagacaa ttgatcatgc acattaaata caga 334

<210> 52969
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H3

<400> 52969

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<210> 52970
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H6

<400> 52970

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gcgggtgctt gatcccaaca ctggtaggac actaagaata tatccccctg aaactgtaac 120
tagatgcgat gtattagatt cctctatatt tgctttttgg tccaagagtt cgggtgatgt 180
tgaaggaaaa agaataaggc tgaaatcaaa cagctatata tccagcacca ttcttgacac 240

tgtcacagct gcgactgtgc agttcaagga gatgggtgaa agcagcattt caagaagtag 300
 agcaattgct gatgcatcca aacccgctga gcagcaaaat gagaggaaga aaaatttctt 360
 gatcggagga atttaaattg 379

<210> 52971
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H7

<400> 52971

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 cgccggcgcc gctggtggac gcggcggagc tgggttcgtg gtcgctgtac cgcgcggtga 180
 tcgcgaggtt catcgcgacg ctgctgttcc tgtacgtgac ggtggcgacg gtgatcgggt 240
 acaagcacca gacggacgcg tctgcgtcgg gggccggtgc ggacgctgcg tgcggcgggc 300
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<210> 52972
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H8

<400> 52972

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 gctgccatcc taaatcaatg cgaagagtac atcaagcctt ggataccctc ttatactgcc 180
 atcgtacgcc agtgtgtgtt gcgacaaggt gagagatgtg ccaaataagg acatgaact 239

<210> 52973
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A12

<400> 52973

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catatcacat aaacctgacc attatataaa atacttaccc ccaaaaccat ctaataacta 120
caatacatatc atacatattc ccatctaatac caaaacaccc ttcttcaa 168

<210> 52974

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G4

<400> 52974

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cgaatattct tacataagcg agctacatca tatcagaatg atgaaagtca gcgatcatcc 180
tatgggcggt gcacctgctt gtcagtctgc gcatagctgt attatgtcct tgagcgccgg 240
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gtta 304

<210> 52975

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A4

<400> 52975

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caaggcgctt aaagagatca cagccacaca cctcctcgca taccgcgctc aaaccacctg 120
ccgcgaccgc tcagcaccat caacgaacca gtctggcgca gaaagtcgga caatccaaag 180
accgcctaac atccaggacc atcccaatct tcagtccaag ccccg 225

<210> 52976

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A5

<400> 52976

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aacaatcaca caatactaaa gcactacttg cattaaacgc tcactacagg aaacatgaag 180
ttgacaaaga ttagcactct ctgcaaccac tttcaaacaa caaataacat catgaacttc 240
tcattaaact cacttcttac aacgatcata tgaatgaaaa cccttaactt cattaccatg 300
ccaacaaatc tcatagcatc aactactccc tgaacctac ttaatgaaaa atgtacta 358

<210> 52977

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A7

<400> 52977

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cccacaccgt gaacatcaac gccattattg atgcattcca cctcattaat cctcagacca 180
tgattctctc ccactaccca cctcatacaa catcaaattg atgccaccta aataatccat 240
ctat 244

<210> 52978

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B7

<400> 52978

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<210> 52979

<211> 398

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E3
 <400> 52979
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 atcgcgccgg cagatcatgt gtgctatgtg cactgcagct tctgcaacac agttctcgcg 180
 gtgagtgtcc cggggaatag catgctcaac atcgtgacag ttcggtgtgg aactgcgca 240
 aatctactgt cagtgaacct gagagcactg atgcactcac tcccagaaca agatcatcag 300
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<210> 52980
 <211> 142
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E4
 <400> 52980
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 agacttcttc atatgtcctt tctactctcc accctctact attcatctta tcctagtcca 120
 tacacccta cgattctcct at 142

<210> 52981
 <211> 340
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E5
 <400> 52981
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 cgtcacatga gttctcctct ctactcactt gatttcatta ttcaactcat aatcaagttt 120
 gtggtgttaa gttttaagtt ttacaggatc acctattcac cccccctcta ggtgctctca 180
 attggtatca gagccgttct cttcaagaaa gggactaatc gtcgaagag atggatccta 240

tgggcaaggg gatggtggtc aatgataatg agaaggagtc cttcgtcaat gatccaaaag 300
attacaagcc tactgactcg ggctcaagcc acatatgaaa 340

<210> 52982
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E7

<400> 52982

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gagtaattta gaatactcac atcaacattc gtggccattg gccatgttc 109

<210> 52983
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F1

<400> 52983

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gggtcggagg ggcagggcgt ggcggacgtg ctgttcggcg actacggggt caccgggaag 120
ctgccgcgga cgtgggttcaa gtcggtggac cagctgcca tgaacgtggg cgacgcgcac 180
tacgaccgcg tcttcccgtt cggcttcgga ctcaccacca agggcacgaa gtgagtgagt 240
gtgaggcgct ctgatgggat gtggcctgtg agtgagctgt gtattcgtgg gcgggcgtga 300
agctcttttg ctttcgaatt ggttgggggt gactggcggc gagtcgtgta cgccggacac 360
attgcgcagc gtacgttggg ttgggatgtt tgcgtctggg aataacagtg atgcattctt 420
gagatgggtg cttgtagtgt gggtttggtg 450

<210> 52984
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-045-Q1-K1-F10

<400> 52984

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gggcagtttg ccgtggtttt ntgataattt gtacttcgtc tgttttcgct tctgttgctg 120

taccattgtc ttaatcgatt tgtggatttt gaagtctcct tttaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

taaaactttc taaat 255

<210> 52985

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F12

<400> 52985

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tgtatgcttg ttaccgtcat gtcttttctt tctactactag gctccatcca acatcgatgg 120

cttgcttctt tatcagaaca tgtttgaata aacgctattt ggtaaaaaaa aaaaaaaaaa 180

aatattataa aaaaaaaaaat acaacaagaa caaataataa aataaaaaaca tt 232

<210> 52986

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F2

<400> 52986

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ggaatgtata gattatgggc ttcttccagc acgccaacat attttgaaac caaccatgaa 120

gcaagaatta gtttcttaag ccttagatct gattcagtta gactgagtcc tacggcagat 180

gatatattgg gaggttcgat ctatgatcct tcttactact cgtcactgtt cgaggatgtc 240

cgaaacaatg catgcaatca tcagggtgat aaacaaagtg gtagtaatga cagtgggttca 300

acatctgcag gccagacacc acgacttaaa tcttttgcta atgatgtgga atgtggacta 360

aaaagaccgt tgaactccta aggataaaac aacggggtca tcttgaacc taaatcctga 420

accaacgtt

429

<210> 52987
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-045-Q1-K1-F3

<400> 52987

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agaacccccga ccgcggggcga accaaaccct agcgagcgag gcgatcagcg tccggcgacc 120
ggcgacagag cgcaatggag acgcgcccgg cgccttgca cctcgaggcg gccgtgcccg 180
cgggctccgg ggctgcaacg gcggcgggcg cgcagcagga ggcacccgcg gcgaagaaag 240
tggcggagga ggaggatccg cgcctgcgct gggccttcgt gcggaaggtg tacgccattc 300
tctccctcca gttcgcgctc accgcggccg tcgcggccac cgcgtgcctc gntccgccga 360
tcccgcgctt cttcgccttc ggcccccccg tcgtcgtctg gtccacgtac atcgcgatcc 420
tnctgtcccc ggtcatcgtc atgtt 445

<210> 52988
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G1

<400> 52988

tgccagtcaa tagcgagttc tactactagt tgctagcctg ctgatctgtt ctgttgatta 60
gtgcgggggag ccttctgttt cggcgaccat ggatgatgag aggaacaccc agcatcacca 120
gggctgtgag gccagcaag acgcctacga tcaagttgac gtgaaggata gggggcttct 180
gtacagtct 189

<210> 52989
<211> 151
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E11

<400> 52989
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aacaatctcc agccctatct atccttcact catcattaca aaccatcatc tcacatcacc 120
tccatcaact ctttccacct atcatcaacc a 151

<210> 52990
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G12

<400> 52990
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ttctaaccga tgctgaccag taattgcttg agcagtgtga cagcaaatac gcccgctact 120
tgtgcaagct aatgggcggt tattttgatt accacagga cggttacttc ataaaaggag 180
cgtatcttca cgatccaacg actgttattg cttcggtgaa cccatcgctg ctgacttaca 240
cagaacgcgt tgtgagggtg cagacagtct ggatcaccaa gggccttact gttttcgaca 300
acaccaagaa aaggtactga gagatcacag actcgtagtg gcatgccac cgtgaatgtc 360
gctatc 366

<210> 52991
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G2

<400> 52991
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gtagtgttcg agctgggttaa gcttgctaca gagaggggcc gcaaagctag gcctaacttg 120
aagggtgggca tttgtggaga acatggtgga gagccttcat cggttgcttt cttcgccaag 180
actgggctgg attacgtttc ttgctccctc ttcagggtcc cgatcgctag gctagctgca 240
gctcatgtgc ttgtctgagg ggctgccttc tcgttggcag cctgcttgtg gtgcatctgg 300
tgattaataa tactactatg acagtaccat atgctctgtg aagagt 346

<210> 52992
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C3

<400> 52992

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tcaggaaagc atgagcttga tttccggcgc ttctcgccgt cgagctcgaa ccagaagata 120
agaagaatcc gctaggggcg agcccatag aagatggccc cgcacccgca ggaggacaaa 180
tcagatcggc acagcagcgg cgccggtgcg tcgagggagc aggaacggcg gccgtccaag 240
gcatggggaa tcctcatctt cggcctcatc ggcgtcacca ccgccagttt cgctattact 300
caagttcgca aaagcatgga ctggttctac actcagttga ataaagtgca gtcaacatca 360
tcttggactt ggaggtatac aagtaataac tcaagtcgtg gaagcttaat gaggaagcta 420
agaaaagtat ttatcagcga atgc 444

<210> 52993
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C4

<400> 52993

cccacgcgtc cgggaggggg agcaagcatt ttccgtccgt ggaagaagat gtcttacgta 60
gtgcctcttc tgcactcgtt gtgggcggtg gaccatgcca tcctcgccga ggaggagctc 120
ctattcatca 130

<210> 52994
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C7

<400> 52994

ggttgctctt ccagcaagga aaaggaacgc taggctttct tttgcatttg tatacccagg 60

cgaagaatgg tcgttttgtt gtcagacagg tgggttcgac cttcgcttat ggccatggaa 120
gaggtgatga tgccaaaact cttgcagagc ttgggttcca gattggcgat tatctgagcg 180
tcgcgatcat gtaactgcag attggcgatt acctgagcgt cgcgatcatg taagccggtg 240
cccgaatga gttccggtga ctgcaccgga tagaactgat gtgatgtaaa aaatgcattg 300
gttgcgacga gcaagggagg agtatctgtt agcgctagga agtggaacca aaactgtctg 360
taatgccggt actaccaaag ttgcctagac actttgaacg atcaaaaaaa ataaaatagg 420
g 421

<210> 52995
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C8

<400> 52995
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gtggaggggc gatggcggcg gctgatgtgg agtaccgttg cttcgtcggc gggcttgctt 120
gggccaccag caacgagtcg ctggagaatg ctttcgcctt ctacggcgag atcctcgact 180
ccaaggtcat caccgaccgg gagacggtga ggtcccgcgg cttcggcttc gttaccttct 240
cctccgagaa ctccatgctc gacgctatcg agaacatgaa cggcaaggag ctcgacagcc 300
gtaacatcac cgtaaccag gccagtcctt gtggc 335

<210> 52996
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D1

<400> 52996
cccacgcgtt cgccccgcg ttcgcaaggc tcatgcctga aagtcactat tcgtcagctg 60
gggcggtcca tgatacaaca gatgcaacag ctttgcaatg agtgcaaggg gactggagag 120
agcatcaatg agaaagaccg ctttccatgg tgcaagggtg agaaggtcat tcaagagaaa 180
aaagttcttg aggttcat 198

<210> 52997
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D11

 <400> 52997

 actccacca ctcacccgaa aaaaaaaaaa aaaaaaaaaa aaaattaaat aaaaaaaaaa 60
 accaaacaaa aaaaaccagc caattaaaaa aaaaatacgc caacacaaaa aaaaaacaaa 120
 aaaaacaaaa aaaaacaaaa aaaaaacaaa aaaaaaaaaa aaaaaaaccc cccaaaaaaa 180
 acactcaaac caaactaacc caacaatcca acacaaaacc ctttcaaaaa caacccccaaa 240
 acccaaacaa cccccaccca atc 263

<210> 52998
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D2

 <400> 52998

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 gttttcaatg ttgttggtga gatcaciaag ggaagcaaag ttaaataatga gcttgacaag 120
 aaaactggac tgattaacgt tgatcgagtc ctgtactcat cagttgtata ctctcacaat 180
 tatgggttacg ttccaaggac tctttgtgaa gacaatgacc caatggatgt gttagtcttg 240
 atgcatgaac ctgttggttac tggttcggtt ctgagagcaa gagcaatcgg ccttatgccc 300
 atgattgacc agagtgaata ggatgacatg ataatagcaa tctgtgctga tgatcctgaa 360
 tatcgtcact acaac 375

<210> 52999
 <211> 152
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D3

 <400> 52999

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 gcgggcattc ttaagggtag cagctgcata cctgtaaagt taaaggccaa atgtgggttt 120
 ctgccttctt cagatttttt ttaagaagat aa 152

<210> 53000
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D4

<400> 53000

aaaaatcttc ccaaacccta gctcccgatc ttgatggcga accctcgctt cttcttgagg 60
 gtgacctttg gcgggtcccc tgcagtcctg atcgtgatgg agctgtacgc caactagggtg 120
 cccaagaccg cggagaactt tcgcgcgctg tgcacgggcg agaagggcgt tgggcaagtc 180
 ctgtaagccg ttccactaca agggcttcac gttttaccgc ttcatcccct atttcatgtg 240
 ccatggcagc gacttcaccc gctgcatctg ctctgctgc aagtccatct actgctagaa 300
 gttcctcgac tagaagttcg tgcgcatgca cat 333

<210> 53001
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D5

<400> 53001

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 gcacgtacac ggtgcagatc aagacgagct gcgctcccc gcggagctcc gcggacgcgg 120
 tgagcctcgc gttcggggac gcgtaccgca acgaggtgta cgcggcgact gtgacgcctc 180
 ggcgcgggtt cgagcgctgc tccacggaca cgttcgcgt cgccgggccc tgcggctacg 240
 gcgtctgcta cctctacctg cgccggtctg gccgctcggt cgggtggacg ccctagtggg 300
 tcaggtgtt cgagccggtt ttcggtgcgt ctctcacctt ttact 345

<210> 53002
 <211> 264

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D8

 <400> 53002

 cggacgcgtg ggcggacgcg tgggcggaact cgtgtgcggc aacggatatc tcggctctcg 60
 gatggatgaa gaacgtagca taatgcgata cctgggtgtga attgcagaat cccgcgaacc 120
 atcgagtttt tgaacgcaag ttgcgcccga agccttctgg cggagggcac gtctgcctgg 180
 gcgttacgcc aaaagacagt gaaaaataaa tttgagattt caattacaat ttagatcaaa 240
 taatatagta atataatatg tgtc 264

<210> 53003
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-B8

 <400> 53003

 cccacgcgtt cgcccacgcg tccgctcctt tacgctgcag ctgacgaaca agacagacaa 60
 gcaagtctcg ttcaagggtga agacgacaag cccgaaaaag tactgcgttc gcccaaacaa 120
 cggcatggtg gcgccccggt ccaaggctga cgttggtgtt actatgcaag cgcagcggga 180
 cgtgccaccg gacatgcaat gcaaggacaa gttccttgtg cagagcgcca ctttcgccaa 240
 ggaggctcgtg ccaaatgagg tcaactggaga catgtttacc aaagattcaa gcaatgtatt 300
 ggaagaagtt gaagtgaatg tagtttatgt agcaccatcc tcctttcaaa gcctatagat 360
 ttgaggattg taatctctgc agtttgagtt tt 392

<210> 53004
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D9

 <400> 53004

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tgggtggtggt gatggcgacg acgagcacag gcggtggcag ggcggcagcg gcgtgcgatc 180
 ccaagccgct ggtggtgtgc gatccggcgt tcatggactg agcgaaaccc gcggcagcat 240
 gctgctccac cctgcgtgcg caagaggcat gcttgtgcgt gtacgccaaa gaccccaagt 300
 ttgcaaaata catcaacaac cccaacaccg tcaaaacctt tacctcgtgc ggcatagcca 360
 ttcccaaagt ctaaacaagc gctcttcgtc gtcgcttcgc ttgctcttgc ttcttgggggt 420
 aacatattca gcttatgaat aaattatgtg gatcaat 457

<210> 53005
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E1

<400> 53005
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 gaagggcatg agatgaatga ggaaatgaaa actcttgatc gtgagctagc tcgtgcaaag 120
 gtttcagcaa ataggggttgc agtagtggtg gcaaatgagt ggaaagatgg cgatgataaa 180
 gtaatgcctg ttaaacgatg gctcgaggag cgaaggattc tgcaaggaga aatgcagcaa 240
 ctccgggaca aacttgctat tgcagaaagg gctgcaagat cagaagctca actgaaagag 300
 aagttccagc tacgacttaa ggtactcgag gaaggattga gaatgtctac atcgagaacc 360
 aatgtcagtg gcacacgccg tcagtctatt ggtggtgctg attgtttg 408

<210> 53006
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-045-Q1-K1-E10

<400> 53006
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 cttcagggac gggtttcata atagtctggt gctggcgtcc gactgctttc catgcacgtc 120
 gaggtcggac gaggacgcag agacatgctg gccagtggct gcggccacag gccccatcgt 180

tgtggcacca gcgacgagga ggttgtagtc gagcagcgtg gcgcgggtgt cgttccgcgt 240
atggaggcac tatccgctct acattcgccc catcgttcca tggtagctaa ggtacccgta 300
ccaccaactc tctgactcta acgatcaatc gatctgcttt ggctagggag gtctcgattg 360
gtagatgcat gttgagtgtc tgcggtagct atgcggacng agcttgagag tcggattgat 420
gcatattgtg gttagcgatt gactacttgt ttgcc 455

<210> 53007
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A4

<400> 53007

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gtgatggtga aagctctgct tctggcaatg cactggcagg tatctcattt gcatccatgg 120
caccaagttc aggtcaccag gcgatgtcgt ccacatcaga ctcacatcca gttttcccag 180
catcctcgct tctaccaggt tcagggtccag ggtagatgac aaactttgtg cggtaagta 240
ccagaatccc tggtgtcatg gcgagcgata caagcaccac gcctgaatcc atatgttcac 300
cacatcggat gtgggtccact gaacgctgca ccagcaggaa ttcaacaagc tagagctcat 360
attggacgca c 371

<210> 53008
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A5

<400> 53008

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gaggacgagg aagggtagcc agcgttcgag ctggtgaaca aggtcaccgg cgaagccatc 120
aagcactcgc tgggacagag ccacccggtg cgccttgtgc cctacaaccc cgagtacgtt 180
gacgagtcgg tgctgtggac ggagagccgc gacgtctggc acggcttccg ctgcgtgcgc 240
atggtgaaca acatctacct caacatggac gccttcacg gcgacaagga ccacggctgc 300

gtccacgacg gcaccaccgt cgtcctctgg gagtgggcca agggcgacaa ccagcgctgg 360
aagatcctgc ccttggtgaa cgtgaacaga gacgagctag attaattc 408

<210> 53009
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-045-Q1-K1-A6

<400> 53009

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gcaaggatta ttctgggtgc tttccatgat tcttctagca tcctttgttg ctcatgcacg 120
cacaacaagt gggcacacca aagaggacag caatgctagg aacatgacga tgaccaagac 180
gagggcatcg ggcaacatac ttgttagccg taatgacgac gggccatgct atctagattc 240
cggctcttaat gagtacgtct gcagaaagac taataagtgc tataagagct tggtgctctg 300
cgtggcgagt tgtcaaccat catcatgaat tcatgatact gcggaaacat catgatactg 360
cggagacaga ctgctagaga tgaggctagc tagatgctgg ttcacaaaaa tattatgtaa 420
caccccaaat ctccattnta agaaataaat aagattttcg 460

<210> 53010
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A8

<400> 53010

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ggaagaaaag gaagaggaca aggagatgac tctggaggaa tttgagaaaa taagagagga 120
gaagaggaaa gcactacttg cattgaaggc tgaggagagg aaagttgaag ttgacaagga 180
tttgagctct ctgcagccac tttcaaacia gaaagaaaat gatgaagttt tcattaagct 240
gggttctgac aaggataaga agaaggaaaa tgctgagcgt gatgagcgtg ccaagaaatc 300
ggtgagcatc aacgagttcc tgaaacctgc tgaaggagaa aggtactact gcggccgtgg 360
ccgtggaaag ggccgtgggg attcgtgtgg tttt 394

<210> 53011
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A9

<400> 53011

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tgtgctatct aagggctcta gagtactgtt gtgcaaggac cagacaatgc tatgatgaca 120
taaagaagtg cttggagcat tgccgtgggt gaaagggtga ataaaggata tgctttcttt 180
ggatcttagt tggatgatcag aaaaatgttc taccaattca tgcattgtacc aaaggataat 240
ataagctgct caaaaaatcg tgggttaatta gagttttttg ttggaaaaat gataacttcc 300
ttacaaacat ataccaaatt aaagagaccc tcttaatgca tgatctatct ttttaataaag 360
aacatattcc atagtaaaaa aaaaaaattt aatatatttt ttaa 404

<210> 53012
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B1

<400> 53012

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gggtggccttt gtgctgttgc tttaaagttt cttataatca tatggcatct tcttgccctg 120
ctttatgac acctaggaac tgccttgcc tgggtgcctga gtaatctcga atatatcgta 180
tagatctttg gtcttcagta ctctaataa aataagacaa attctcttga aaatacaaat 240
cttgtgatag tgaaatgaaa ttcattttgt ttgtatggca tgatgagcta cgtgatgctg 300
tgctgcttgt tttcgccaac aagcaagatc ttcctaata catgaatgct gctgagatca 360
ctgacaagct tggattacac tccctgcggc agcgacactg gtacattcaa agcacttg 418

<210> 53013
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B10

<400> 53013

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cccattgttc ttttcacata ctataatcca attctgaaac gtggtgtggg aaacttcatg 180
tctactatca aacaagctgg catacatgga cttgtagtgc ctgatcttcc tttggaggag 240
acagcgttgc tgatgagcga ggccattatg cacaacatag agctggttca taccactct 300
catctttgca tgcaccactt gcacaaaatt tgttgctac ttgtgttgc atctgggtgc 360
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<210> 53014

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B12

<400> 53014

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cctacaacca gcccttcccta aacatgctca gcatgtacta ccactatcat atcacctacc 120
agttcacatg caccaccadc acattactac cttcacagc tcctcctctc tattacatca 180
cactctccta cttctaattc ctctcccccac actccaacct caatttctac cacctcttct 240

<210> 53015

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B3

<400> 53015

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accgtgtaag gacatggccg tcgagcgctt gaagaccggg ttcgagcagt tcaaggccga 120
cgtctacgac aagaagccgg agctgttcga gccactcaag gcgcaccagt cgcccaagta 180
catgggtgttc gcctgctccg actcccgcgt gtgcccgtcg gtgaccctgg gcctgcaccc 240

cggcgaggcc tttgccgtcc gcaacatcgc cagcatggtg ccgccctacg acaagaccaa 300
gtacgccggc gtcggctccg tcatcgagta cgccgtctgc gccctcaagg tggagggtcat 360
cgtggtcata ggccacagcc gctgcggtcg gatcaaggcg cttctcttcc tcgaggacgg 420
tgcccccgc aagtttcaact tcgtggagga atgggtcaag gt 462

<210> 53016
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B4

<400> 53016

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gttggcactg cccaaccgga actcggtcag agggttcgag gtcacgcacg ccataaaggc 120
ggatctcgag agcgtctgcc cggagggtgtg gtcgtgcgt gacatcgtag cccttgccgc 180
cagctatgga gtcctcttta gtggagggcc ttactacgat gtgcttctgg ggagaaggga 240
cgggctggtg gccaaaccagt catgagccaa cagtggctcg ccttcgccgt tcgagcccat 300
cgactccatc attcacaagt tcgccggcgt cgaccttaac acg 343

<210> 53017
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B5

<400> 53017

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gagtgcgact atgggcagtt gagggttgtg ctgctctttg taagttgttg gagccccaat 120
attgtgcagc acatattctc ccagttatcg taaatttttc tcatgataaa tcttggcgtg 180
tgcgctatat ggtggcaaata caactgtatg aactatgtga agctgttggt actgaacca 240
catggggtga tctggtgtca gcttatgttc gccttttctg cgacattgat gttgaattgc 300
tgattgcagc tgcttgaaat gttcaaaatt cttgaaaatt ttaaaccac aaattgcaat 360
tgaacattat tttt 374

<210> 53018
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B6

<400> 53018

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gggacgcccc cctcgtggct cgcatacagg gagtcacggt cctggtcggt aacgcagacg 120
ccttgttcac catggtgttc gaaaccgaca ggctaaaggg ctccacgctc gtcacaaacg 180
gaatggtcac ggatgggtca gactaatggg cgatctacgg cggaaccggg gtgttcgcca 240
tggccaccgg tgtcatgaag agaagaaacc ttgccggcgg tagcaactac tggaaactctg 300
acgagcttgc cctggaagtt ttctg 325

<210> 53019
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B7

<400> 53019

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gtgatgctcg gtgaaatcat aaactacgtg cagtccctac aatgacaagt tgagtttatg 120
tccatgaaac tggccaccgt gaatccccag gtggacttaa atagcctgcc taacgtcctc 180
cctaaagatg tacatcagtc ttgtgggtccg ccacatttct cgctggagac ctcatacgct 240
tcgttgctcg acctcagcca gcctcaccat ggaagccctc ttggctgcat ggacaaccag 300
agttgtatgc atccacttga cagcagttt tgcttggcga taaatccgca gtattcattt 360
ccttaacggt gttagcgatg catcggttta gttgcagcta atttgatgct tgtgtttatg 420
gaaaccaaga agtggcgctg at 442

<210> 53020
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A11

<400> 53020

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acctactctc gcggctctcg gcagcctgtc tagggtttcg gtcccggcgt gcttatccgc 120
ccccgccggc catgtcgaag caaggaggga aggccaagcc gctgaaggcg cccaaggccg 180
acaagaagga gtacgacgag acggatcttg catatctgca gaagaagaaa gatgaggaaa 240
aagcactgaa ggagcttaag gccaaaggcac agaatggcgc gattgggggc tcgggtctga 300
agaaaagtgg aaagaaatga gactggtcac ccgtctcaa tacctagagg atgataaggc 360
agctgtctat ctgtgttcgc ctttactaaa tgtgattgta acagtgttac ctcttggtt 420
ctgtg 425

<210> 53021

<211> 141

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-G10

<400> 53021

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aaataatcca ggctgtacgt acatataaat acaacagtcc tcctcttct atcatntcta 120
cctaaattca attcgctccc c 141

<210> 53022

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-G2

<400> 53022

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aacagantct ttttacaac gtgaatcaca tccatgntgn ccggctaaca tggatatatat 120
tatctttatt gtcgtctcgc taacatgata aatacacata tttttcccaa atactgctct 180

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G6

 <400> 53025

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 gtacctagct cgctctgcta gcctacggag ngggtgatca ccaccggggg ggcacggggag 120
 gtggcggnng ctacggcgac ctccagcgcg ggggcggcat gcacggcgag ggcgagcagc 180
 agcagaagca gggcgccatg atgacggcgc tcaaggccgc gacggccgcg accttcggcg 240
 ggtcgatgct ggtgctgtcc gggctgatcc tggccggcac cgtgatcgcg ctcacgggtg 300
 ccaccctgt gctggtgata ttcattccg tgcgtg 335

<210> 53026
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-G7

 <400> 53026

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 tgttttcagg ggcaagtttt gatttcaa at ttaaactctg tgtttaagct ctcaaattca 120
 aacaaatgca gcaaacaaaa atataccagc atgagatgca aataccta gttattagtt 180
 aatttactat cctattttta gcaaatgcct ttacacatgc aactcctaca ctaaaaaata 240
 ggcatttttg agaaaaatga tctctagtat attaaaatcc ctaagagaga gcttataaac 300
 atataattca acaaacggat gactggactt tatgtaaaga taaatttatt taatct 356

<210> 53027
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G8

 <400> 53027

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<211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-A10

 <400> 53032

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 aagttgacaa tgccagtgaag aacgaagctt tttaaccata agcgacttat cagctcctta 120
 cgaatccagc tcgcgtgata cctgcccagg agaagttcat caagctcctt gaaaacagcc 180
 gatatgtacc tgtgaaacca ggcgcttctg gattcatcct cctccgagac ctgcagccga 240
 ctgatgctga agatcttgcg ctgaccgatg cccccacaac agtcgcatga agcaccggca 300
 aactgcccc tgctgcaagc caacaagggt catgatcatc agccatggcc gttgacgatg 360
 agccacagcc gtcacaaccc tttgagtaca cctcttgagc gaccgagcgt taccttttct 420
 tattegtttt ttttttgact ttttt 445

<210> 53033
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-F9

 <400> 53033

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 aggttccaga gccccctggt gctttgccgt catctctgct tggatacgag gcaactgacag 120
 gttccctgga tgattttgga tttgaagatt atcttaacat gcctcatgat tctgacagtt 180
 tccgtcaacc tgacatgcac catggaatgg aggttcgcct tggtttgtcc aaggaccta 240
 tctgtcctag cttcaattga ggcagtaatg taattctgct gcaagttcac ctctcagtcc 300
 agtacttcag tcaatagacc atattaagat ggtgaaatat gaaaactggt agcttgcac 360
 tggatcaatgt tatgttttaa tcaacgctta aattaatatt tgtcc 405

<210> 53034
 <211> 224
 <212> DNA
 <213> Zea mays

<210> 53037
<211> 489
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E4

<400> 53037

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gaccattatg agggcttaat ggatctatctt ggtaagaata gggagaaacg tcaagacggt 120
gagaactcaa aaggtacctc gaagaaaaag gcgcgaacag aaccgccaaa ggagatactt 180
caacgtactc cattaaatcg gaaggggtca gctcttgccg aaagttcaga taagacgggtg 240
gacaaatgtg agatccatga tgagataaaa acaaattgtg aacttgattt gtcagaatcg 300
tgcagaactg ataattggcat tgttgccata cctgttcgtg cctattcata cggtaaaggt 360
ttgccctatg ctctgaaaa ttggccacgt catggagaca tatggcactg gaaagttgga 420
agcagggcct ctggagcagg ccattgggct gacaggtata ttatgccgcc atcccgtttt 480
cgtggcgct 489

<210> 53038
<211> 216
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-E7

<400> 53038

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attattataa ataaaaagga aaataaaaat ttatgggggg tgtatgtctt ataggacgac 120
cacttcctat ccagcacct gatctactgt atatggcatt ccaacagcaa gagacgtggt 180
tcgtaacctg cagaagaggg ggaaacttct gttaaa 216

<210> 53039
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F11

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391

<210> 53042
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F3

<400> 53042

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taccgccggc gcctgcaccg cgccttcgtc atcgacgcgc cctccctctt ctccgtcctc 120
tggaagggag tgaggccgtt cgtggagctg gcgccggcga cggcgggtgt gtgctccctg 180
gacttcgagg actcactgga ggacgcctcc ttcacggcgt acccgcggaac cgcgtccctg 240
cggttcgagc cgccgccggc ggcggtcacg gggaaggccg gcgtggggtc agcctcgtcg 300
cggttctccg tcacccccac cgaca 325

<210> 53043
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F4

<400> 53043

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gggtcgcgct gggtgccggg agctgggatc gaaagtactg ctgttggtcg cacggcgagg 120
cggcggcgga gaccggtcag aaggaatgtc ttcggcccaa atcgcgccgg cagatcatgt 180
gtgctatgtg cactgcagct tctgcaacac agttctcgcg gtgagtgtcc cggggaatag 240
catgctcaac atcgtgacag ttcgggtgtg acactgcgca aatctactgt cagtgaacct 300
gagagcactg atgcactcac tcccagaaca agatcatcag ctccaggaga acatcaaggt 360
ccatggcatc aacggcactt tgcacgatga tcatcagtac tgcggccatt tggatcagct 420
cggttcttct tcgtcgt 437

<210> 53044
<211> 381

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-F7

 <400> 53044

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 tcgcaggctcg cagccatggc gaagaactac ccgaccgtga gcgccgagta cagcgaggct 120
 gtggacaagg ccaggcgcaa gctccgagcc ctcatcgccg agaagagctg cgccccgctc 180
 atgctccgcc tcgcgtggca ctccgcgggg acgttcgacg tgcgtcgcgag gaccggcggt 240
 ccattcggca cgatgaagca tcagtcggaa ttggctcacg gcgctaacgc gngctggac 300
 atcgcggtgc ggctgctcga gcccatcaag gaggagtcc caatcctctc ttacgccgat 360
 ttctaccagc tcgcgggagt t 381

<210> 53045
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-F8

 <400> 53045

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 gaaatggtga gagcacaaca acgtcatccc caacgggcac ttcaagaagc actggcagaa 120
 ctatgtcaag acatggttca accagcccgc ccgcaagcag aggcgccgca tcgctcgtca 180
 aaagaaggct gtgaagatat tccccgcgcc gactgctggt cctctacgcc ccattgttca 240
 atgccagact ttaaagtaca acatgaagtc aagggtctgg agaggcttta cccttgagga 300
 gctgaaggct gctggcatcc caaagaagct tgctccaacc attggtattt ctgttgatca 360

<210> 53046
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C5

 <400> 53046

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 aaaaaaaaaa aaaaaataa aaggggggga aaaaaaaaaa tttttttaat atatagncca 120
 aaaaaaaaaa aaaaataatt tttaactcca taaaactaaa acggccatgc tctaaataaa 180
 aaaaataaaa aatacccaac ccttctaaaa aaaaacaata aacaaatact aaaaaaaaaac 240
 tttataggga atccttttt 259

<210> 53047
 <211> 328
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C6

<400> 53047
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 aaaangggaa atttttaaaa aatttttatg gccaccttc ctccccttca tacaaagtcg 120
 cccccctttt atagggtccc aaaatttcat tcccttcccc ccgggttaac aacttctttt 180
 ctgtttaaaa ccatgccaat aaaaaactca attttttaaa accacatccc tttaaaacca 240
 cctgcctaac caactaaaat ccccttacia atcacccttt ttaacaattt tccattataa 300
 ataaaaaatc caacccccct tttatttc 328

<210> 53048
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-C7

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 caaagctggt aaggcaagga caggattgat gatctcgagt cttctactat ttctaaagtt 180
 ctttctact gctgaggagt ccattgaata ctataaccag aaaagatgtg tagatggaaa 240
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cttcaatggt gaaaatcagc caccagag gtgtatgctt agggggtttc gtcttcatag 360
 atgccctat tggattaggc catcaattac agtctctaac cacaatgggtg ttcttttttc 420
 ta 422

<210> 53049
 <211> 474
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-C8

<400> 53049

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 agcgcagaca ggactcgtaa ttgattgtg aggctgcgc ataatgtcat tcgaactgga 180
 ctgcgcaaca tcagcatttc ttactcaagg atctcccttg ctgacattgc taagaagcta 240
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 gatggcgcca ttgacgccac catagatcat gcaaatggct ggatgggtatc caaggaaact 360
 ggtgatgtct actcaacaaa tgagccacaa attgcattca actccaggat tgcgttctgc 420
 ctcaacatgc acaatgaagc ggtcaaggcg atgagattcc cccctaattc tcac 474

<210> 53050
 <211> 505
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-D1

<400> 53050

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 ccaagcaccg ggggcgcgag ccgagccgg aggcctagta aatgaagacg ttcgatccgt 120
 ggcccgcttt ctccgcgg gagtggaagc gcaattggcc ctccctcacg gngttcgcca 180
 tcaccggctt catcatcact aagatgacgg ccaacttcac cgaggaggac ctcaagaact 240
 ccaagttcgt ccaggagcac aagaagcgct gaccaaccag taatctatga catggacgcc 300
 ggatggcact ggcagaggga tgggtgtacg tgtgtccga attgcctgtc tggacagcca 360

<210> 53054
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D4

<400> 53054

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agcgcggcgg tgccggagcg agcagagcag ccggagggcg tgtcggatcc gccgccgtca 120
agatgaatga cgccgatgta tccaagcaga tccagcagat ggtgcggttc atccgccagg 180
aggccgacga gaaggccaac gagatctccg tctccgccga ggaggaattc aacattgaga 240
agttgcagct tgttgaagct gagaaaaaga agatcaggca agagtatgaa cgcaaagaga 300
agcaggttga agtacgcaag aaaattgagt actctatgca gttgaatgct tctcgcacat 360
aagttcttca agctcaggat gatctagtta acaaaatgaa agacgatgcc atgaaggaac 420
ttctccttgt cagccacaac caccatgaat acaagaacct ttgaaagac ctaatcattc 480

<210> 53055
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D7

<400> 53055

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cgacaaagag gaaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg ggccctttta 180
aaaaaatcaa acttaactaa cccttaattc caaataaaaa cttttttaaa agggcaacta 240
aaataaaatt aattgccctt ttttaaaaaa ctccgaaatt ggaaaaacct tgcgttaacc 300
aaattaaatc cttttaaaga aaatcccttt tttccaactt gggttaat 347

<210> 53056
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D8

<400> 53056

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gggccttagg agaaggcat gataattatt ttgtatctac catagtagtt gtttgatatc 120
gacgcctctc tctctctctc tctctctctc tctctctctc tgttattact ttatatTTTT 180
gttactgtcc ttccatttga atctatagga tggtaaagt ggctgatgaa agaggagaaa 240
gaaacaaaac agttgggttc ttgttacttg taagtggta aactgaaata caaatggatg 300
taagattgaa tga 313

<210> 53057

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A7

<400> 53057

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cccatctcgc gggcatggga gacccaccc gcgcggggag cagccgggct cgagatcgca 120
cccgtcgcg tgcgggccca agcgggagct gtccgcgtat attggcgcgc gacgaccac 180
gcgggggcgc tggaacctcg ggcacgttc acgtacggcg ccgaccgagc gacccgcg 240
gcgcaggcga gtcgcgcgc tcagtcgcgc gcgcgcatgc cgctc 285

<210> 53058

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A8

<400> 53058

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gatgctgtgg aggcaagcac tgtgaagcgt gttgcaaacc gttcatctt tgatcaggat 120
gttgctattg ctgcgatggg gccgatcaa ggacttccag actacaactg gttcagacgc 180
cggacctaca tgctccgtta ctagattaat cagccggtgt acccatgttt accgtctgca 240

aaagacaaga taaaatttgc ctcttttagc gtcagtatat taaggcctca gcactgcaca 300
 ttacgtgctg cgatggagga attttttgag aatttgtttt atttcttgtc gtgtccaaaa 360
 tccacaaatc tgtcaataat gataggcaag ttcgactgac gt 402

<210> 53059

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B10

<400> 53059

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 aaggaatgga ttatgaatga tctgcgcgca tacnaaccaa aaangaacag ttaaataagg 120
 gtttttgaga gttcagatga gatttcaacg gatctttctt agtgtatctc acaagtttca 180
 gatanttctt tcaaagaaag gagatacttt accatcgctt tatctggagg tcccctagtc 240
 agttttttgg ggaaactttg tgaatctcca tacaacaaga cacttgattt gtccaaattg 300
 tacatcttct ggtcttatga acgttctttg gcaaaaaacc attcatagag taactatatt 360
 ttaacaaaaa aaggattcct ctccaaggta cctattctta atgtccatgt ttactccata 420
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<210> 53060

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B7

<400> 53060

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 aattgcaatg ttcaaagggtg ttccctttac tacatcagct ggcccatgta tatcttcgat 180
 tcacaacgga aatgttaagt gaccacctca ttagacatgg ttgcatacat tgacatcaaa 240
 cttatgcatg ctgtctgtgt accattttgt catacatcat gttttgccca tatttagcgt 300

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agtttgc 367

<210> 53061
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-C1

<400> 53061

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cggttttctg gcggggagga gacgcgtgga cggcggcgga gaacaaactg ttcgagaagg 180
cgctggcgca gatcgaccgt aacgcgcccg acagggtgga gaagggtggc gaggtggtgc 240
gcacgaagac ggtcgacgac gtgaggaacc actaccacga cctggagaac gacgtcggct 300
tcacgcaggc cgggctcgtg ccgttcccgc actacagcgg ctcggttccg tcgttcgggt 360
tcacccacga ggattgggac ggaggggtca agcgcggcta ctgccttaag cgcgcgcgc 419

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<211> 281
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53062

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cgcttccctc cttcctgaat ttactaataa tatataacat ccatttactg ctaacaacca 180
tttctcaatg acatcttcat tactcctcct tcttctactg ctacctctcc ttttgacctt 240
ttaaataact cttattattg cttctcaact ctttcatttc a 281

<210> 53063
<211> 363
<212> DNA

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 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}$
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & i \\ 0 & 0 \end{pmatrix}$
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & -i \\ 0 & 0 \end{pmatrix}$
 $\frac{1}{\sqrt{2}} \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$
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<400> 53063

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<210>      53064
<211>      95
<212>      DNA
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<223>      Clone ID: LIB3079-043-Q1-K1-G6
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<223> Clone ID: LIB3079-043-Q1-K1-G7

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aacaaatgca	gcaaacaaaa	atataccagc	atgagatgca	aataccta	gttattagtt	180
aatttactat	cctattttta	gcaaatgcct	ttacacatgc	aactcctaca	ctaaaaaata	240
ggcatttttg	agaaaaatga	tctctagtat	attaaaaatc	ctaagagaga	gcttataaac	300

atataattca acaaacggat gactggactt tatgtagaga tcattttatt ttaatctgta 360
ttaggaacat gtttattttg ggaaatgtaa cttcagaagt atggagattc ttt 413

<210> 53066
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G8

<400> 53066

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aagacttcca tattgtggcc attcatccag atcacaattc gttcatcctt gttcagcact 180
ggaaccagaa actggtatca tataacatgg atactcagga actgcatggc ctctgcactc 240
ttggaaaggg ctatgtgatt attaccccat atgttccttg tttcttggag tcatcggttc 300
ttgccaccaa aactgaggt tgttgtttct ggggacttct ctgcatgttc aacaagagcc 360
tgatcatcca agtgt 375

<210> 53067
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G9

<400> 53067

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caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct 180
tcagtatgtg aaaaccagc tcttcagccc tataggctcc aacaagcaat cgcagcaagc 240
aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatc 354

<210> 53068
<211> 332

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-H10
 <400> 53068
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 ggcaagggtg tccttgctgc tgatgagtc actggcacca ttggcaagcg cctttccagc 180
 atcaatgtcg agaacgttga ggagaaccgc cgtgccctcc gtgagctcct attctgctgc 240
 cctggtgctc tccagtacat cagcgggtgtg atcctcttcg aggagaccct gtaccagaag 300
 accaaggatg gcaagccttt tgttgatgtc ct 332

<210> 53069
 <211> 265
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-H11
 <400> 53069
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 tgtcaactta gaaaccctgc cctcggactc tatttgctgt gtcttaatac atacggtatc 180
 tttcagaact gccaaaacca gagcagcctt gtgatgtcta gaggagctct ccgctcagtg 240
 acggcacatg agtgtgcact ataga 265

<210> 53070
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-H6
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gtggagaacc tcaactggaag tccctagtcctt cttggcaatg aggaagaagc cactacttat 180
gctaattgtgc aagatcagtc caagggaaga accaagaaag ctttacgagg aacccaaaga 240
cccaatgcaa gacgagttgt gtaaccaagg gcatgtgagc atgaacaatg aagatgtggg 300
aggccagaac aaagtggacc aagctaccn cacagagcac ggcgaggaag ctgggggt 357

<210> 53071

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-H7

<400> 53071

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tcagagattg gtttttcttt aattttggag gtaaatcata cgcattattg aggtcccagt 180
aggttaaaag aatgaagttc ctcgtctggg gttgttccaa ggccaacca ggtagaactg 240
caccgccgca gcatcggctc cattgattga agttctctgt tttgttaatt aaccctgtt 300
aagaaaaaaa gaaggcgtgt tcgccgtgtc ggaattcttt ccttcctccc ctagtgttta 360
tttcaatatg atatcgatac ctgatgtact actggt 396

<210> 53072

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-H8

<400> 53072

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cttagtgggc ctcggcacgc gggtgacggc ggcagtggcg gcactcatga tcgggctctc 120
agcgacggca tcagcggttt cccctcccgc ttctctccag tcgcctcgcg ccctcgctc 180
cggctcctcg cacaccagcc ggtgaccctc catatagggt gtgagactac caaaactcga 240
aatgaacaa gggaaagatt ttaagctag ccaagggtt cagaggaagg gcgaaaaatt 300
gcataaggat agcaagagag aggggtggaga aggcgctgca atattcatat agggatcga 359

<210> 53073
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-H9

 <400> 53073

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 ggagctgtac gccaacgagg tgcccaagac cgcggagaac ttccgcgcgc tgtgcacggg 180
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<210> 53074
 <211> 447
 <212> DNA
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 <223> unsure at all n locations
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 <400> 53074

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 gttgacaaag aagaaatata ttccatattt ttagagtttt tggatctctt tggatgatgca 180
 aagtcaatca ggaaagcttc aactcggcat acaacttttt tttcatgtaa gagaagcatt 240
 ctgccatcaa agaaacggaa ggctgatgat gctgttgtgt cagacaggga caagtttgct 300
 aaaactgggt ctgttcagtc agccacagga actgatccaa atgcttccaa tccttctggt 360
 tggcctgcga cttctgaaac atctggacat caatggggag cttcttatgc tcagcaggct 420
 gcatatcctg catatggaac ttatgac 447

<210> 53075
 <211> 276
 <212> DNA
 <213> Zea mays

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<400> 53075

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ccatctcctc ggaacagcaa agctgtgcag caatggagaa gtataacagc ggcactcaat 180
ttgcaccatt gagagagact ccgtttgccc tcccgggggc tcttggtagt tcaagctcat 240
atcttgagca agccaggggc tacacatctt tccctg 276

<210> 53076

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A3

<400> 53076

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gagctatgac tatgctcatt gcatggtgga ttctcttgaa aacatcacgc attcgctgtg 180
cacacttgag ttgacatac gccgcccttc atactactgg ctacttggtg ccttggggtct 240
ttatcaacca tatgtgtggg aatattcgag gctaaacata tcaaatactg tgatgtctaa 300
aagaaagttg aatcgacttg tgacagagaa ctgggtagat gggtaggatg atccccgctt 360
gttgacactg gctggactcc ggcggcgggg agtatcatca accgcaataa attcctttat 420
ccgtggaatc gggataacaa gaagtgacaa cagcttaa 458

<210> 53077

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 53077

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gtattgagtt acgtatagtg cgatagtatc acattctttt ggcttgtgtc tacagttcca 180
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<210> 53078
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E6

<400> 53078

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 ctttgttctt tgcttctgga acttgggctg accacaatgc tcctgcgtat aaatccgtca 180
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 cctcttatgg ttcaacctgt tccatttcca ggaaggctctg tccaaatggg tactttgttt 300
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<210> 53079
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F1

<400> 53079

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 ataatgcgca aattccatgg attctgatac tagaacatgg ccgtggtgtg tttcacagga 180
 cgcgcctgcc atctgatttg agggctcaagt ggaggagcat gcagaggaag aagtgggcag 240
 gctactgata ttacacgccc ccgcgcacgt agctgttgtg tctcatgcta aattactaac 300
 cataccttca tttctctgtg tccatctgca gatctgatgc cgttgacatg gaacactgac 360
 gtggtacttg tacat 375

The following table shows the results of the regression analysis for the dependent variable *Perceived Organizational Support*. The independent variables are *Organizational Commitment* and *Organizational Identification*. The table includes the regression coefficients, standard errors, t-statistics, and p-values for each variable.

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<210> 53081

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<210> 53082

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<400> 53082

22722

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tacagtttct tttttacact tctcatatct actttcattg aacctgatat cacttattca 300
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atgctcggct tgggggtggaa ctccggggg 209

<210> 53084
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ctgaaggctg ctggcatccc aaagaagcct tgctccaacc attggtattt ctgttgatca 360
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c 421

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 <223> Clone ID: LIB3079-043-Q1-K1-G10

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 ccaaacttat tctttttgca ccccataatt catttcacta cctctcgta taaaaaatag 240
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 <212> DNA
 <213> Zea mays

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 tcgtccgca cgccgcgggc tacggcgctg ccctcgccga cgcgctccgt ccgccgccg 180
 ggctaactag ggagtcctcg cccttcgagc tcccccttgg aaagtacggc ctcgacggag 240
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 acgtcatatt cggc 134

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<223> unsure at all n locations
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 cgcagctgtc gccgccaag ccgagatcga ggacctncgc gccgccaagc tcgacctgga 360
 ggagaagctc gctgaggccc gccgtgagaa caagtcctc gccgaggaga cgcaccgcag 420
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<212> DNA
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 ccaaatcctc ttatggttca acctgttcca tttccaggaa ggtctgtcca aatgggtact 300
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 <211> 468
 <212> DNA
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 <223> Clone ID: LIB3079-043-Q1-K1-C8

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 agcgcagaca ggactcgtaa tttgattgtg aggctgcgc ataatgtcat tcgaactgga 180
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<210> 53092
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 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-C9

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 tacccttgct ttccctaccg aagaagggcc aaccctccag gtggccatct cttgtgcagc 240
 aaatatctat ttcatttatc agaggggtcaa aagtggatgg cgagcattct tttatggggtt 300
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<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D10

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<210> 53094

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D11

<400> 53094

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 acaaggggca ggtgctacgt acttcacca gaccactaaa aggcagtga gccataggct 120
 attcatcttc ggattgtcct cagcaccaat ccagtcattt tcgcaacgtt taccgcaaag 180
 accgctacct tgggcaccag ttctgtgatc cagttgaact ggcacgacg cctgagttat 240
 caagcatcag tgggtgcgaag acagagacgt ctattggtgc atcagtgagg acaagctcat 300
 ctctgaaga ggtcgatgga tcgggcgaac tttcagcctc tgtcagcaac gcaagtgcg 360
 aagagagggga atgggtagaa gaggacgagc ctggcgtgta tattactatt cgagc 415

the \mathbb{C}^n norm on \mathbb{C}^n in the following sense: for any $\mathbf{v} \in \mathbb{C}^n$, $\|\mathbf{v}\|_2 = \sqrt{\mathbf{v}^H \mathbf{v}}$, and for any $\mathbf{A} \in \mathbb{C}^{n \times n}$, $\|\mathbf{A}\|_2 = \sqrt{\lambda_{\max}(\mathbf{A}^H \mathbf{A})}$.

<400> 53095

<210>	53096
<211>	335
<212>	DNA
<213>	Zea mays

<400> 53096

tctgtatgca	ttttgcccat	agacttggct	tgctgcactg	gggaagacga	caatgggtgac	60
cgacagggag	gaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	120
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaagggg	gggcccgttt	180
aaaaaaacaa	aagttaacta	acccttgaat	caaagtaaaa	acttttttta	aagggcaaca	240
aaaataaaat	aaatggcccg	cgtttaaaaa	acttggaaac	tgaaaaaacc	cggggttaac	300
aaaattaaat	cgctttgaaa	aaaatcccct	tttcc			335

22728

<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-D8

<400> 53097

gtttgcttgg tggcttgggt aattatgtta tggccttggc agagcaacag gaaaaaaaaag 60
gggcctgagg gtaaggcat gataattatt ttgtatctac catagtagtt gtttgatatt 120
gacgcctctc tctctctctc tctctctctc tctctctctc tgttattact ttatattttt 180
gttactgtcc ttccatttga atctatagga tggccttggc ggctgatgaa agaggagaaa 240
gaaacaaaac agttgggttc ttgttacttg taagtgggta aactgaaata caaatggatg 300
taagattgaa tganaaaaaa acaantacaa naaatacaaa anaatataat taa 353

<210> 53098
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D9

<400> 53098

agtgaatcac atgcggcaga ctgtgaatct tgtatccaat gaacgccaaa agctgttggg 60
tagagcggcg gctgcagaga aaagattcca aaaaggatgg aatacactca gggaagaagg 120
gcgttccatt caacacgagt tgcgtgagat tagtgatatt gaaaaccaag cagtaggtct 180
gaaggggaatt cttgatcagc ttcccagagc acatgcatct gaatttcggt cgaagatgtc 240
tggcctagct tctcagggtta agaaggagaa gcgagtgtc aacgccgcc tcacgaagat 300
tgtgaactac ggtgtcccca tctgactgcc actccagcca gttgttctga aggtccattg 360
tattgtatca aatttttgtg aaagaagaca tgttcgatgt gt 402

<210> 53099
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E12

<400> 53099

aaaattaaaa aaaacccac attttttttt tttttccaat acaacaaaaa aaaaaaagtc 60
 taatactttt tcttactca ctccacaact tttttatttt tttctttaag aacccccaaaa 120
 ccaaaatcat cctcgatcgg taaacgcaaa aatttttttt ttttagttc gggaccttaa 180
 tacacacacc atttttatttt tttccccctc gcccgcataa aaaaaaaaaa acaaaa 236

<210> 53100
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-C7

<400> 53100

gtggcctgct ttccttttga tgatcataac tgcccccca tacaacttgt catatcattc 60
 tgccagagtg cgctactcat ggttgaagga ggatatagaa aatgtggtgg ttgtccattg 120
 caaagctggt aaggcaagga caggattgat gatctcgagt cttctactat ttctaaagtt 180
 ctttctact gctgaggagt ccattgaata ctataaccag aaaagatgtg tagatggaaa 240
 agggtgatt ctaccaagtc agattagata tgtgaagtat tttgagcgca tcttaactta 300
 cttcaatggt gaaaatcagc caccagagag gtgtatgctt aggggggttc gtcttcatag 360
 atgccctat tgga 374

<210> 53101
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B1

<400> 53101

ctgctgacat cccactgggt ggtggcggcc ggcgctgctc tttccgcgga cggctcagtc 60
 acctttgcgc tgtacgtcgc gaccacacg cctacgaccg actcccaagc ggccgacctt 120
 gagacactcg gggggctctt tgacacacgc ctgtcgtatg atcgctcaca tacgctcat 179

<210> 53102
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-B10

<400> 53102

tccttattcc cggtcgaccg cgcgtctctt aactaatgca cattcccgga gaatattggt 60
 gaagcaataa cttgatattg ggttctaaac caaagaaaga antgggtata aaatcatctg 120
 ccacatacna nccaaaaaag aacaatgaaa taaaggtttt tgaaaaattca aattaaattt 180
 caacggatct ttcttaatat atctcacaaa tttcagtatt ttctttcaaa aaaaagggat 240
 acttttccat ccccttatct tgagggtccc taatcaattt t 281

<210> 53103
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B12

<400> 53103

cccacgcgtc cggtcgctgt cgtggagcac agccgcaccg cactcacacc atttcaccat 60
 ctctccgcgg gagcagatcc tctccgctcg ccagcctccc cctcctgctg ctgcctcctc 120
 gcttcaagca acacccgaag cggcaacaac caccaccacc accaccaccg gacctggctg 180
 agcgaccctt tggcttccca ctccactgaa gcaaggcgag agagagtaaa gaagaggagg 240
 agaagccatg gcgagcga 258

<210> 53104
 <211> 304
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-B3

<400> 53104

cccacgcgtc cgcccactcg tacgcccacg cgtacgcca cgcgtacgcc cacgcgtncg 60
 cccacgcgtg cncggcatta aaacttattg ttgaaaaaaa aaaacaaaac aaaaaaaaaa 120
 aaaaaacaaa aacacaaaaa aaaaaaaaaa aaacaatcct ggacacaaaa caaaaaggct 180
 aaaccaccac gcactactat accgggcgcg aactcaaaaa aatccaaacc tacaatcgcg 240

ctgatggcaa atcatacttt ttgtatgggt cgcctaaaat taaatcacct gcccccttt 300
 taaa 304

<210> 53105
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B5

<400> 53105

atcgaggcga cgccgatgca cctcatctcc ggcgaaggga aatggcgacc gttccagggg 60
 atctgatctg gcggattgtg aggaagaaca actccttcct ggtgaagcag tttggcaacg 120
 gcaatgccaa ggtgcagttc accaatgagc ccaacaacct ctacaatgta cactcctaca 180
 agtactctgg cttagcaaac aagaaaactg taacgatcca gccagctgct ggaaaggact 240
 cggctgtggt cctctctact accaagacca agaagcagaa cacacccgag aagc 294

<210> 53106
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B6

<400> 53106

ttcttcccc ataccttcca tcaattatag cttcaatatg tgaaaacca gctcttcaac 60
 catataggct gcaggaagca atcgagcaa gcaacatacc tttatcgccc ttgttggttc 120
 aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg gcacaacagc 180
 tgcagcaact cgtgctacct ctgatcaacc aagtagctct ggcaaacctt tctccctact 240
 ctcagcaaca acaatttctt ccattcaacc aactgtctac actgaacctt gctgcttatt 300
 tgcagcaaca actattacca tttagccagc tagctactgc ctactctcag caacaacaac 360
 ttcttccatt taaccaattg gccgcactga accccgctgc ttatttgcag cagcaaatac 420
 tactaccatt 430

<210> 53107
 <211> 353

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-C1

 <400> 53107

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 gcgttccccg cgacggcgcc ctgcttctgg ctgcacgaca cgcactcggg tttctggcgg 120
 tgaggagacg cgtggacggc ggcggagaac aaactgttcg agaaggcgct ggcgcatatc 180
 gaccgtaacg cgcccgcacg gtggggagaag gtggcggagg tggcgcgac gaagacggtc 240
 gacgacgtga ggaaccacta ccacgacctg gagaacgacg tcggcttcac cgaggccggg 300
 ctctgtccgt tcccgcacta cagcggctcg gttccgtcgt tcgggttcac cca 353

<210> 53108
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-C10

 <400> 53108

 cgcgtccaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaggcct 60
 gccactcaaa aaaaaaccaa gttacttac acattcatgc tcccctccta acctttctat 120
 agtatccctt aaactcaact tactatcctt atttttaaaa caactatact tttaaaacct 180

<210> 53109
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-C12

 <400> 53109

 gctcccgcat catggctcag ccttgaagga acagatttct tcaaccaaga ttctgtcccg 60
 tctcaagagt ggcagcggac tatgctcggc ctgtgaaaac ttcacgagcg aagccgtcac 120
 ttatctcggc aaggaacaga cacaggacag gatcatggag ttccttcatg atgcttgctc 180
 ccaatcattc tcctttgaac agaagtgtgt cgagctgatg gactcttatg cgactctcct 240
 gtttgccaag atcacggaga tcagaccgga agcgttctgc aaacgggatg gcctgtgcag 300

ggacacggct cttctctccg gtgtgggaag tgacagcacg tgtgtgttct gccaccatct 360
gctcgatgaa atcatgtcca aactgaa 387

<210> 53110
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-C3

<400> 53110

cccacgcgtc cgccccacgc cactctccct actccctccc tctctctcta tctccctctc 60
tctagcaccc gatgcagcag caacccccct ccaatggagc tggcgaccga gccctcccaa 120
gctcctctct cactttggca agctctccca tggcgtctcc cctcctcta cggcagtaag 180
gaccgagaga tgatgatcga gccagtgatg tgggtgtaac aacaaggatg agttggtgga 240
cgtactgaag gatgatggac ttaaccagtg gatgctcgcc gagcaagtac ctcccccaac 300
aaacactatc taagtgttaa attaaaagta ctctctaaga tgtttggttg atggtgtgac 360
ttggcctnca tccctgccac cgggatagac ggtcgagtgg gttac 405

<210> 53111
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-C4

<400> 53111

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gttctccggg gttcgggttc gtgggtgagc ggatcgagat ggcggcgctn gatgttgagt 120
cccgtgctt cntcngcggc ctgcctggg ccacggacga cactccctt cacaacgcct 180
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240
cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300
gcatgaacgg caaggagctg gacggccgca acatcacctg caacg 345

gcagtgctgg tcagaagttt cttgcttctc ttataatcag actagcactt gcggaaactt 240
tctgcctgaa ctgcggtata ttggctttgg atgagccaac tacgaatcta gatgggccaa 300
atgcagagag tcttgctgct gcgctgttga gaataatgga agccaggaaa gggcaggaga 360
acttccagtt gattgtaatc actcatgatg agagatttgc ccatcttatac ggtcaaaggc 420
agcttgctga gaagtactat cga 443

<210> 53115
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-F9

<400> 53115

tcccactcat actaaaataa caaaatttat gtatctatag aatcacaaat caatgggtgaa 60
aggggggttct tataacagaa taatactcac atatacatat attcaaattt aattcattaa 120
aattgtgcaa tcttaaattt aattat 146

<210> 53116
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G10

<400> 53116

aatgatcacc cttccactag agaaaatggc aaccagagta gctgggtccc tctgcgtagc 60
tgactgggct tggggaggag atgattgtta gcagcatgaa gaagtatgaa gatagagcag 120
tagaactagc gctgaatccg gtgaagcttc aagcgctgac taacaagctc aaggaagttc 180
gtatgacctg cccgttgttt gatacagctc gatgggtgcg caaccttgaa agggcatact 240
acaagatgtg gaacctttac tgctccagtc gccacccgga gccattcaag gtggttagagg 300
atgacaatga gtccccattt gaccgctaac gagatctcat cagca 345

<210> 53117
<211> 397
<212> DNA
<213> Zea mays

53117 53118 53119

<223> Clone ID: LIB3079-042-Q1-K2-G12

<400> 53117

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tgattggctt ttctagatac attgcttcaa ctattgtatg tcgaagtgca tagcaaaatc 120
aatgtatcta gaaaaactaa aacgtcttaa aatggaggga gtattattat tcagagggtg 180
ccgtggggga gtgggactat cctaaacgag tgaaataaca atattacatt tgatgccttg 240
ttatagcagt atgcaatata ttagtatact catagttgga gtagcgaacc atcttagagt 300
gagaaaactg tagccagcag aacagcattg tctacaaaga tgacaatttt gtttagctgt 360
gctccttttt tgtacctttt aagttgagac ctgatgc 397

<210> 53118

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G9

<400> 53118

cccacgcgtc cgggtgaagt tgctccatga ggcagcgggt cacgtggtga cggtggagct 60
ggagaccggc gaagtgtacc gggggtcatt ggtcgagtgc gaggataact ggaattgccca 120
gctcgagaac ataaccttca ctgccaagga tgggaagggt tcgcagctgg agcacgtctt 180
catcagagga agcagagtga gatttatgat tatacctgat atgctcaaga acgctcccat 240
gttcaagcgc ttggaagcga ggattaaggg caaaggatca gctattggag ttggtcgtgg 300
acgtgctgtt gcaatgcgtg ctcgggctgc ttgtggtcga ggtggt 346

<210> 53119

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H10

<400> 53119

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tcctccgtcg agaagagcta cgagctgccc gatgggcagg tcatcacgat cggcgcgagg 120

aggttcagat gccacagaggt gcttttgcag ccgtcgtga tcgggatgga agctcccggc 180
atccacgaga ccacctacaa ctcgatcatg aaatgtgacg ttgatatcag gaaggacctg 240
tacgggaaca tcgtcctcag tggagggacg accatgttcc ctggcatcgc tgacaggatg 300
agcaaggaga ttac 314

<210> 53120
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H11

<400> 53120

cccacgcgtc cgcaagaacg tgcccatgct gaaggcaact gcctcaagat tgtttggccc 60
tgtatttgat tggatagaaa catgggaaat gatatcaaga ctttaagtatc ttggaactat 120
gcttttctg cataattttc agcaggcttt tacatgggcc ctttaagattg tgggtgctgc 180
taagtctgct cttagtgttt tgacaaagcc aattgcggga ccaattctgg aggtttttga 240
acttacgatg ccaatttgga acctttgtgc tgagacagta ggatatctga gttcagttgt 300
catgttatct gtagaagtgt cttggagtgt agttattgat acagtggaga tgattgtctg 360
gccattttgg tttggcttca gtactatggt tagcattgtg aattcaattc 410

<210> 53121
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H9

<400> 53121

cgactggggtt gctcgtgaag ttttcaacat tgagagtgat caaatcctta gctgcttgct 60
tttgtctctc tattttctcc ttgtgtattt ttaagcgttt atccatgaac aaagtatcgg 120
tactagggtta ctactaaacc aaggtattta ggctgtttgg ctgaggttta aaaaaaatac 180
ttactatact caaattaaaa ggccatgaac aaattgcaca tttaatcatt gaggggtat 238

<210> 53122
<211> 424
<212> DNA

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-A10

<400> 53122

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 atttctcttg gggaggagcc ctgcgagtct tacctttggc gttgcacctg gccttgccat 120
 attggccctg gctgtactta gcctcaatgt ctggaggagc gggaagtcca gcttaccggt 180
 catactggcg caagcaggca ttgccgctgc cgtagcatgg aagcacggcc aggcgtacac 240
 cactacgagg aagctgcttc cgtggggatt ctacgtcgcg ctgagtgccg caatgatctg 300
 cttctactcc tacgttcttc ttgccggagg gaatccgcct cctaagaagg cgaaggcgaa 360
 ngcgaaggct gctgcttgat ttgatgttga aggcatcac cggagcgtct cataattgca 420
 ctac 424

<210> 53123
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A12

<400> 53123

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 gacctcggct gtggtggagc gcgtaaccaa cgacgaccgg agcgtatcct cgttgcttga 120
 tccaacgctg ggtggagacc acagggaaga cgagctagcg gtcacgaggc aggtgatccg 180
 ggctgcatg cagagcgacc cgaggcgaat gccgagcatg agggagggtcg ccgccaggct 240
 gagggaggcc gtgggtatct cgccggtcgc tgcgacgccg aggtgtctc cgctctggtg 300
 ggccgagctg gaggtccttt ccgccgcgga agcaagctaa taatagtggg cgagaggaca 360
 ggacaggaac agggcatgat gatgtcgcgc aatctgacca gtttgttctc aagaaaaaaa 420
 agccttgcat ccctttgtgc atgctgtaaa tgtgaatgt 459

<210> 53124
 <211> 305
 <212> DNA
 <213> Zea mays

cggcggtggc ggcggcggct ggagggactg atg

273

<210> 53127

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A12

<400> 53127

cccacgcgtt cgcctacgtt gagcaccaga aggccgtcac tatccgcaac gacgtcaacc 60

ttaagaagga gacgcttagg atcgagcctg atgaagagtg ccctggccac ttntcgttg 120

ccttcacctt tgacgccacg gtcgctggca gcatgactgt ttacttgttt gcaaaggaag 180

agctcaactg caatctaaca gcagtgaaag aagacctaata gaagcccgtt actggtagct 240

tcaaagaggg tctgggtcaa aaattcaggc aaccttcagg aacagggatt gacttttcaa 300

tggttgaga atcagattat taaagcaggg ggacatggat ggatatccac ttgcagttaa 360

agtgaaaca acattgcttg ttgatcacc accagaaggg gatgaccaa agatgaaaac 420

tcctaactca cagat 435

<210> 53128

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A9

<400> 53128

gagcgcggcg cgcgagaggg agaacgacca ggaggggagg agatcgatcg atcgatcgat 60

cgagatagat ggctttcctc aacatggagc agcagacctg ggccttcacc ttcggtatcc 120

taggtaacat aatctcgctg atggtgttcc ttctgccgct gccgacgttc taccgctgt 180

accgcaagaa gtcgacggag gggttccagt cgaccccgta cgtggtgacg ctgttcagct 240

gcatgctgtg gatcttctac gcgctgctca agtccggcgc cgagctgctg gtgaccatca 300

aacgcgtcng gtgcgtgatc gaggcggcgt accttgccgc gtacctggtg tacgc 355

gagaccgtcc tcaagacgct ggcgaactcc aagggaaagc tgatcatcat cgcaaacaac 120
 tgccctgcac ttaggaagtc tgagattgag tactacgccca tgctggccaa agttagtgtg 180
 caccatttcc acggaaacaa tgttgatctt ggcactgcct gcggcaagta ctacagggtg 240
 tgctgcctca gtatcatcga cccaggtgac tcggacatta tcagtaccac ccctggcacc 300
 cagtgaacca 310

<210> 53132
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C12

<400> 53132

gagagcatta acaacaaacc tgcaactgct gctgaagagc ggcaagtaca cactatgcta 60
 cgagaccttt cttatgacac tgggcaactg caaatgacag ctgat 105

<210> 53133
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C9

<400> 53133

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 caccctgggc tactagaccg ttgttaaaac tctgcgcaac ttcaaggtaa agctgatcat 120
 catcgcgaaac atctgtcctt cacttatgaa gtctgagatt gagtactaca ccatgctggc 180
 caaagttagt gtgcaccatt ttcaccgga acaatgttga tcttggcact gtctgctgca 240
 agttct 246

<210> 53134
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D10

<400> 53134

53132-53134 "094559"

gtcaccaaatt cattccagtc cctacatgaa gcatacaaag ggaaaattgt tgggcttgta 60
 gtatccacaa atgaggctcc atcatcctta ggatccataa ttgacgcacc attttaactg 120
 aacatttaag gacgggttaga aaaagcaggc aggactccag acttagcctt tgcgaactg 180
 gttcaaaaaa cctgggcttg aattacagga atcatcctgc tgggtcaaac tctaataagg 240
 gttggctg 248

<210> 53135
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D11

<400> 53135

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 tctgggaaat ctgacctgga agcaccgatt gcaatccgcc ccacaagtga gactgtcatg 180
 tatccatact tctgcaaag gataagaagc caccgagact tacccttgat gtgtaatcaa 240
 tgggtgtaatg ttgttagatg ggagtttagc aatccaactt ctttcataag gagccgtgaa 300
 tttctgtggc aagaggggca tactgctttt gcgactaaag aagaagccga tgaagagggt 360
 ctccaaatat tggaactgga caaaaggata tacgtataat ttttagcaat tccagtttcc 420
 aaaggaggga aaag 434

<210> 53136
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D12

<400> 53136

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 ttccacggca cgcgccccga catcaactgc gtcagccacg gcgaccgcct catggtctgc 180
 gtcacctacg ccgaggccaa cgcctgcttc atgtgcgacg tggccagcaa ccagtgggag 240

taatatgaag tcaatgttga gactaatgtg aggtgggaaa ggcctattga tgcacaaat 360
gtattatgag ctaat 375

<210> 53139
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F9

<400> 53139

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agaatcacaa tgaatctgaa acaggtctat acagataacg cacacatgta cataaaaaga 120
atggaaaaat aaaagggcgg cgt 143

<210> 53140
<211> 544
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G1

<400> 53140

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gagtaagcga cagcgaagga gggagagggg gatggccggg atcgggccga tcaggcagga 120
ctgggagccg gtggttgtgc ggaagaaggc acccaccgc gctgccaaga aggatgagaa 180
ggccgtcaac gccgcgcgcc gctccggcgc ggagatcgag accatgaaga agttcaacgc 240
tggatatgaac aaggcggcgt ccagcggcac atccctcaac accaagcgcc tcgacgacga 300
cacagagaac ctgcgccatg agcgagttcc aagtgacctg aagaaaaatc tcatgcaagc 360
aaagctcgat aagaagttga ccaggcaca gcttgctcag atgatcaatg agaagccaca 420
ggtgatccan gagtatgagt cangcaaggc aattcccacc agcagataat tgcaagctcg 480
aaagggcctg gaacgaagct gcgtgcagaa taccagacat atacgaaaca ggaactgctg 540
tata 544

<210> 53141

<211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-G10

 <400> 53141

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 ctactggcct tggggaggag atgattgtta gcagcatgaa gaagtatgaa gatagagcag 120
 tagaactagc gctgaatccg gtgaagcttc aagcgctgac taacaagctc aaggaagtcc 180
 gtatgacctg cccgttggtt gatacagctc gatgggtgcg caaccttgaa agggcatact 240
 acaagatgtg gaacctttac tgctccagtc gccacccgga gccattcaag gtggtagagg 300
 atgacaatga gtccccattt gaccgctaac gagatctcat cagcagcccg gctctgtaaa 360
 taaggcgaga gttgtagaat atttagcatc gt 392

<210> 53142
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-G11

 <400> 53142

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 caacttggag ctgaacccat tcttagagat ggatacaaaa tgctacttca ctggcggccc 120
 cttcgcaacg ctggacatga agtgctttct ccccggcagc ttgcagcata tgctggatgc 180
 acagcagcgc cagatgctcg ccaccgagct gaacctcggc taccaactgg cgccgtatgg 240
 ttctgacgct 250

<210> 53143
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-G12

 <400> 53143

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tgattggctn ttctagatac attgcttcaa ctattgtatg tcgaagtgca tagcanaatc 120
aatgtatcta gaaaaactaa aacgtcttaa aatggaggga gtattattat tcagagggtg 180
ccgtggggga gtgggactat cctaaacgag tgaaataaca atattacatt tgatgccttg 240
ttatagcagt atgcaatata ttagtatact catagttgga gtagcgaacc atcttagagt 300
gagaaaactg 310

<210> 53144
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G2

<400> 53144

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tgaagatggg tcaagtccgc caccagcctc gccgtgggcc agcgtatcaa gagcagcctc 180
agcctcgtca gcaaccgccc aaggatccgg agcatgcacg tcttgaccga ctacggaagg 240
atgaagtgca tgacgctgtc gtacgtgtac gcgatgtcga cggacgagac gctgaagcac 300
gtggactagc tgctgagcga cgacctgatg cactaggtgg actacatgat gctcagctgc 360
tgg 363

<210> 53145
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-G3

<400> 53145

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cctgtcggat tcattcacct acaaggagct cgagaacggc gtnctgtggg aggtcgaggg 120
agagtgggtc acccaaggtc ctgttgatgt ggacattggt gccaatccat ccgccgaggg 180
tggtgaggac gaaagcgttg atgacacagc tgtgaagggt ggtgatattg ttgacacatt 240

ccgtctacag gagcaacctn cttttgacaa gaaatcattt gtgtcttaca tcanaaaaata 300
catcaagaat ctactgctg tgttggagcc acagaaagcg gatgagttca aaaaggggtg 360
cgaggggtgca accaagtttc tccttagcaa gctgaaggac c 401

<210> 53146
<211> 614
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G5

<400> 53146

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ggctatacat ggatgtcact cagaaactgg aagctaaaga ctactcaaca ctgcaagaag 120
cccatgctg tactgctggc ttgaaggctg tgacaacatc tgcaacagct gatgccattg 180
aagaatgtag aaagctctgt ggcggacatg gttacctgaa cagcagtggg cttcctgaat 240
tgtttgctgt ctatgttctt gcttgacctt atgaaggaga caatattgtt ctgcttttgc 300
aggttgcaag gattctaattg aagaccttat ctcaattgac atctggaaaa caacctgttg 360
gtacaatggc ttacatgggc aatgtacaat atctgatgca atgcaaattg gctgttaaca 420
cagctgaaga ttggcttaac cctgttgcca tacaagaggc gtttgaagcc agggctctca 480
ggatggcagt aaactgtgcc cagaacatag gccaaagcag aaaccaagaa gaaggtttct 540
atgagcggtc ccctgatttg ctagaggctg cagtagctca catccagttg gtcattgtaa 600
ccaagttcat ttcg 614

<210> 53147
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G6

<400> 53147

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acctaggaac atccggggat gtcgactcct gcgaggaaga ggctgatgag ggatttcaag 120
cggttgatgc aggaccctcc ggccggcata agtggcgccc cgcaggataa caacataatg 180

ctgtggaatg ctgtcatatt tggacctgat gatacccccgt gggatggagg tacgtttaag 240
ctgactctcc agtttaatatga agaatatcca aacaaaccac caactgtgcg atttgtttct 300
aggatgttcc atcctaacat ttatgctgat ggaagcatat gcttagatat cctgcataat 360
cagtggagtc cgatatatga tgtagctgcg atactcacgt taatccagtc attgttgtgc 420
gatccaaacc cgaattc 437

<210> 53148
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G7

<400> 53148

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tggcaggcgc cgggtgcgccc gcagttcccc aggccggtcg cccagccccc aacttcgacg 120
tcacgtggtt gggcgccggc atcatgggca gctgcacggc gcacgcggcg gcgtctcgcg 180
gcgcccgcgt cctgctgctg gagcgcttcg acctgctcca cccgctgggc tcctcgacg 240
gcgactcccg catcatccgg gacgcctacg cgcagcccg gtaccttcgc atggtgcgcc 300
tcgcccgcgt cctctggggc gncggcgagg cggaagccgg ctaccgcgtg ctcaccccca 360
cgccgcacct ctccatgggc ccgcgagca gcgcctcgct cgccgncgnc atcgctaaca 420
tcggtgccga ggaggtggac gtggacgacc ttcacc 456

<210> 53149
<211> 619
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G8

<400> 53149

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tttgttcagt ggctccagaa agcagacata aaggaagact atattttgat ggcagagcca 120
gatcacataa ttgtcaagcc tatcccaaac ttgtcgagag atggtcaggc agcagctttc 180

cctttctttt acattgagcc taaaaaatat gagaatgtgt tgcgtaagtt cttccctgaa 240
gacaaggggc caatcactaa gattgatcct ataggaaact ctctgtcat tattgagaag 300
gaatctcttg gaaggattgc accgacttgg atgaatgttt cattagcaat gaaaaaagat 360
cctgacgcag ataaatcttt tggctgggtt cttgaaatgt atgcctatgc cgtggcatct 420
gctctccatg gagtgggcaa catcttacgc aaggacttta tgattcagcc accttgggac 480
ttggaagttg gtgattcttt tattattcat tatacttatg gctgtgatta tgacatgacn 540
ggtaagctga cttatggcaa aattggagaa tggagatttg acaagagatc atacacggac 600
aaaccttcac ctagaaatt 619

<210> 53150
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G9

<400> 53150

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caagaccggc gaagtgtacc gggggtcatt ggtcgagtgc gaggataact ggaattgccca 120
gctcgagaac ataaccttca ctgccaagga tgggaagggt tcgcagctgg agcacgtctt 180
catcagagga agcagagtga gatttatgat tatacctgat atgctcaaga acgctcccat 240
gttcaagcgc ttggaagcga ggattagggg caaaggatca gctattggag ttggtcgtgg 300
acgtgctgtt gcaatgcgtg ctcggtgtgc tgctggctgt ggtgggtggc ctgttggacg 360
aggtaacgcg cctcctgtga ggaggtagat tctaaatggc ggcttttctc gtctggc 417

<210> 53151
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H11

<400> 53151

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tttatttgat tggatagaaa catgggaaat gatatcaaga cttaagtatc ttggaactat 120

gcttttcctg cataattttc agcaggcttt tacatgggcc ctttaagattg tgggtgctgc 180
taagtctgct cttagtgttt tgacaaagcc aattgcggga ccaattctgg a 231

<210> 53152
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H3

<400> 53152

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cttttgagat taaattatct tggactgctg ttggctctgg cggcggctgg tggcataggg 120
atggagaccg cagctgcgat ggtggagggc ggagtggggc ggtttttgtt ggcgccggcg 180
atgttcgcat ctctgccggc tgtcttacag gttggtcatt taaaaacctt t 231

<210> 53153
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H4

<400> 53153

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taaattgggac acaagcggcc ttattgttac cgggaagagc ttccgcggaa gcagatccct 120
atgatcaggt gccaaagagt cgttacaata ccggagaacg cacatggtaa ggcccaaggg 180
aacgcacaag gccaccacag cctgactaca ttaaccacga gcactattac aactatagcc 240
tcctgtattg catgctctaa acattgctag acaaatgcct gtatgcatca atgaacgctc 300
gagaccggtg ccacaa 316

<210> 53154
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E11

<400> 53154

cccacgcgtc cggatgatgtt cccagctaata ccaaagggtcc cttcttcgga tgcttgctga 60
 ggtgtcatca agaaggcaaa cgtttcttgc ttgagctcca aggtcac 107

<210> 53155
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E12

<400> 53155

cccacgcgtc cggatacgtc catacatgat catgtggcac actcatcaca ggactatcca 60
 tgcactacga gattccatta acatccttgg cacattactg t 101

<210> 53156
 <211> 623
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-E2

<400> 53156

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 cctctcgttt ctcttttcaa taatcaagat gagccgtggt ggtagtgccg gtgggtgtca 120
 aagttctctg gggtatctct ttggaagcgg tgagccccc aaaccagcag tggcaccagc 180
 tgcaagtgtc ccacctgttg agaaaccatc tgctgcaaag actgatgcgg ccaagcaggt 240
 tgctgctggg gttaccagcc aaaccaataa ctaccacagg gctgatggtc agaacactgg 300
 caacttcctt acggaccgtc cttcaaccaa ggtccacgtc gtcctggcg gtggctcttc 360
 cctgggctac ctgttcggtg gcaactgatg cccgtgctgg tgcgctcacc aaagttatcc 420
 tncctgcct gctgcgtgct atgtctgaat cgtgaacaac cgttgctatt tcatgtgtgt 480
 acccgtgca atgctttgtg cgcattggtt atttctctgt ggcaaaactn ccgtcctgca 540
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<210> 53157
 <211> 456

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-E4
 <400> 53157
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 ggctgatacc agatgcaaaa ggaacatcat gcaatcagcg gcttgagaga attagtggaa 180
 cacagcatac ttacatatta cgagttccct tcagaaatga aaatgggata cttaagaaat 240
 ggatatcaag atttgatgtg tggccatatac tggaaacatt tgctgaggat gctgctggtg 300
 aaattgctgc tgaattacaa ggtactccag acttcataat tggaaactac agtgatggaa 360
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 ctctggaaaa gactaaatat ccagattcag acatat 456

<210> 53158
 <211> 661
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-E5
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 gttcgaggag atggactacg tcgccaaggt tgatgatttg gtggaggcgt ccaagtcaat 180
 ttcaacattg ccttctatgg ttgagcgaga cattcagacc gacactgtca ggaaaccagg 240
 gagccataca aggaatctgc ttagagtga ggcgcgggatt gatatggta aagtcctggt 300
 tgagcaaatt cttgtcacag aaggcaactc actaagggat gcagcatcgg tggcttatgc 360
 tcaggtcttt gtcctcacc atggatgggc aataaggaaa gcagtttctg ctggaatgta 420
 cgcccttccc tcaaagtccc agctgttgaa gaaattgaat gaagatgagg aatcagcaaa 480
 ggttcaaattg cagaactttg tcaggtcatc aactccagta atctgctatg ttgatgaccg 540
 tttcacctca aggaatttgg gcatagatcg gtgaagaaaa atatggatac gtttgtttga 600
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t

661

<210> 53159
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E8

<400> 53159

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aagttcttcg ccaccccgcc ggtgcacggc tcgctggcga accaggtggt gcacccggcc 120
gacctgtgct tcaagctccc cgacggtgtg agcctggagg agggcgccat gtgcgagccg 180
ctgagcgtgg gcgtgcacgc gtgccgccgc gcggtggtgg ggcccagagac gggcgtgctc 240
gtggtggtcg ccggcctcat cgttctggtg 270

<210> 53160
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F1

<400> 53160

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agagaaacgt gagatttatg atcagtatgg tgaagatgcc cttaaggaag gaatgggcgg 120
tggaggatcc catgttgatc catttgacat cttctcatca ttttttggac cctcttttgg 180
aggaggtggt ggaagcagca ggggaagaag gcaaaggagg ggagaagatg tagttcaccc 240
acttaaagtt tctctggaag atctttacaa tggcacctca aagaagctct ctctttcgcg 300
caatgtcatc tgctccaagt gcaagggcaa gggctcgaag tctggtgcct caatgaggtg 360
ccctgg 366

<210> 53161
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F10

<400> 53161
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 aatagaagct aaggtcagac ctactcgagc atcctacata atatatattg taaagtgaca 120
 tccaaaactc tattacactg gcacgacatt ttacaa 156

<210> 53162
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-F12

<400> 53162
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 tgcgcaatct ttaggttggt atgcaaactg gtgatgctga gctggaaatg cgagggcgct 180
 gcagtgctgg tcagaagttt cttgcttctc ttataatcag actagcactt gcggaaactt 240
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 atgcagagag tcttgctgct gcgctgttga gaataatgga agccaggaaa gggcangaga 360
 acttccagtt gattgtaatc actcatgatg agag 394

<210> 53163
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F3

<400> 53163
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 ggtggtgtga tggctcttggc cggtagctgc gtagtcgtct acgtacgccg tgtcaacgct 180
 gtagatctct acgggaagat gataagactg taacatgcag ggcatgcatc tattttatact 240
 taac 244

<210> 53164
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-F4

 <400> 53164

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gccccatttt acaagagaaa attaagttgc ttggcgagca atatggtgct ttaagacgta  180
cacgtggaga tggaaactgc ttttatcgaa gctttatggt ttcctacctg gaacacattc  240
tagagacaca agacaaagct gaggctgata gcatcatggt aaaaattgag gaatgcaaga  300
aaacactcct ctctcttgga tatattgagt tcacttttga ggacttcttt tcgatattca  360
ttgaactgct ggaaagtgtt ctgcanggac atgaaactcc tatagggcct gaagagcttc  420
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cttctggtga aattca                                         496
  
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<210> 53165
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-F5

 <400> 53165

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gttcaagacc cagtagagag agatatttct gcctccctat cgtgggtcgt cccaatggc  180
ctttggtcgc agaccatctt tgctgcttgt ctatgctgag aataaatgtg aacggtgccc  240
ctggacgctg gatccatgct ggttttggac acgttgtctt tttgtgttta acttatctgc  300
taccgtcctg taacgaattc actaagttct agttcttttg tgctttgtta agaataataa  360
caatgaggtt tcaattttgg tggcgcc                                         387
  
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<210> 53166
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F6

<400> 53166

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gccgcgaggc cagccgcgcc ctccggaaga tgtccaagga cgaggccgac gtctccgggg 120
acctctccgg gctcaccgac aaggagctcg gcgtcctcgc cgactgggag atcaagttcc 180
aggccaagta ccccgtcgtc gcccgactcg ccgccgacgc ctgaactcgt cagtctcggt 240
ctaaatttac tctgtcctgc ctcttgcggt gttcagtgt gtgcttgctt gcttggtgct 300
agttgctttg ctaccaata atctgaatgg aaggacgtat gtgatgtgcc tgctgaatag 360
ttcctagtcc ttgcatacac tgctgtgcta ccacatgaca tgatgtactc gtgtgtgtgc 420
tttggttggt gtgtaattcc atgaccatga tcagtaatct gaataaaaaa tattggag 478

<210> 53167
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F7

<400> 53167

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cataaaattt ttttttaaac aattaaattg tggattaac aaaatttttt gaaacctttt 120
attctttttt aaaaaaaacc ttgggattta tttcaaaca ggtaaaaaat caggggggtg 180
aaaaaacctg ggaaaaata aaattcttgt aaaaaaaat aggggggtta accttttata 240
aaacgctcag taaaaaaatt tgataaaaaa atttttttcc aatttgggtt tcttaaaaaa 300
agttctttta aagggatatt ttttaaaatt aaaatttttt tgaaaaaaa attttacggg 360
cccttttttt ttccagtttt aaaaaaaagg cggggggggc tcccaaaaaa ttttttgga 420
aaacccgcct tttttttatc tttaaatatt tgaacccttt ttttt 465

<210> 53168
<211> 401

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-E10

 <400> 53168

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 tgcactggga gctgccattg ccataccttg cacattcctg tactctcagg caaaggcgtg 120
 aggcgggcca tgatgacgaa cgtctgcaga atcagtagca agcactaaat ccaattttgc 180
 ttgttccagt ggcattgtaga tatcgggtta gttttccgta tgagagtttg taataatgga 240
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 gggatatatat ataggccaag ccggaattcc ggttttaata g 401

<210> 53169
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-C6

 <400> 53169

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 tgatgctatt tatgttgat aagatgatgt gcgctatggt gtctgatggt tttatatata 120
 ttataatggt gacgaaaccg aggtaaaaaa taatttatat atgtatactg gtgtgattgc 180
 cttgctaaaa aaaatttttg gaccaaattg ttaaattctt gacatagaac atgcataatt 240
 cataatttgt tcttgatcgt tattggctct tttatatcat gatctatttg gctgatattg 300
 attattttct tgatcttggt tattcttt 328

<210> 53170
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-C7

 <400> 53170

 gtactactac caccaccatt tgtttatctg atgaatgaac ggtgacgatg atgacgatat 60

tgttt

65

<210> 53171
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C9

<400> 53171

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caacaaatac taaactaaac tacaaaaaaa gggctgaata ctctaaacga ttcaaattta 120
aatctcctta ttttcgaata cttcatactt taatatagga acctaaatat agataactac 180
cccatgctta caaacgtttt tattcaaaat acccacgttt acaaaaatta tatttttctt 240
aattacttca ctttttataa aattt 265

<210> 53172
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D1

<400> 53172

aaaaaaaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaagg 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaattgg gggggccttt ttaagggaac caattttatt 180
aacccttttt ttaatatata aagttttttt atagtggacc caaatttaaa ttatttgacc 240
tggttttaaa aaaaaaattt ttggaaaaac ctgggttttc caaaattaaa ttgtttggaa 300
aaaaatacct ttttaaaaag ttgggatatt tgcaaaaag 339

<210> 53173
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-D10

<400> 53173

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atatccacaa atgaggctcc atcatcctta ggatccataa ttgacgcacc atcttcactg 120

cacatttcaa gacggctaga agaagcaagc aagactacag acatagcctc tgctgtactt 180

gttcgaaaga gcttggcatg attacagga tcatnctgct ngtttcaact ctcatagggg 240

tttgcttgct tatgaacatg ccacttacca gggaca 276

<210> 53174

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D11

<400> 53174

gaaattaaaa agctgaagct cataccatat tatttcctt tgtttgttac tgagaatgtt 60

ctacagaagg aaaaggacca cattgagggc ttgacactg aggtagcttg ggttactaaa 120

tctgggaaat ctgacctgga agcaccgatt gcaatccgcc ccacaagtga gactgtcatg 180

tatccatact tctgcaaag gataagaagc caccgagact taccctagat gtgtaatcaa 240

tggtgtaatg ttgttttagat gggagttaac aatccaac 278

<210> 53175

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D12

<400> 53175

gcagcggcct acgccgtcgt gctttcgaat tacctcggca cggccagcct gcgcgtcttg 60

gagttcgccg ggggcgcgtg gcggcaggtg gccgccatgc cgtccgccat gtctcacgga 120

ttccacggca cgcgccccga catcaactgc gtcagccacg gctaccgtct gatgggtctgc 180

gtcacatacg ccgaggccaa cgcctgcttc atgtgcgacg tggccagcaa ccagtgtgag 240

gagctgcccc agtacatcat atgc 264

<210> 53176

<211> 527
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-D3

 <400> 53176

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 gctgtacacg gagacgtaca cggagtcggt ggacatctac tcgtacggca tgtgctgtgt 120
 ggagatggtc acgcgggagg tgccttacgc cgagtgcggc agcgtcgtgc agatcttcca 180
 caacgtcacc cggggcgctc cggccgcggc gctcaagcgg ctcaaggacg ccgagctgcg 240
 gggcttcacg gagcgctgca tcggccagcc ccggaaccgg ccctcggccg ctgacctcct 300
 gcaggacccc ttcttcaacg gcgtccgtgg cggngacgac gacgacgacg ccgcggcgct 360
 cgccgacgcc ttcagcgtcg tcgccgncgc gcccgcgccg cggccagga gctacgtcga 420
 cgacctgcc gggctccggc tggactgacc tgaccgtccc tcccagcgtt ctgcctttca 480
 tcagtaccgg gattccggcg cgtgttagac gtgttttatt agaagtg 527

<210> 53177
 <211> 507
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-D4

 <400> 53177

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 aagggtcaga aacttcttgg catttgctca cagcatcttg agaaagggtga aacacaccaa 120
 gggccagctg tcctagggat tgctcttatt gctatggctg aagaattagg agctgaaatg 180
 gctgtacgtt cacttgagcg tcttctgcag tatggcgagc agaataaag acgggcagtt 240
 cctcttgctc ttggtatact ctgcatact aatcccaagg taaacgttat ggacacacta 300
 agcagattga gtcattgatc agacccgat gtgtcgatgg ctgcaattat ctcatgggt 360
 ttgattggtg ctggcacaaa caatgccaga atagctggca tgcttcgcaa tctttcaagt 420
 tattactacc aaagaatctg ctcatctgt ttgtgttaa attgcccagg gccttggtca 480
 ccttggaag ggctttgttg acccttt 507

<210> 53178
<211> 687
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-D5

<400> 53178

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agaagacaag gacgaaggca gcaaggtgac tctttcaggg ctctcaact tcatcgacgg 120
gctgtggtcg gcttgccggc gcgagcgcat catcgtgttc accaccaacc acaaggacaa 180
gctggacccg gcgctgatcc ggcggggcag gatggacatg cacatcgaga tgcctactg 240
ctgcttccag ggcttcaagg tgctcgccaa gaactacctg ggcgtgcagg agcatgacgg 300
cgagctgttc ggcgacatcc gtcggctgct ggaggagggtg gacatgactc cggcggacgt 360
ggcagagaac ttgatgccta ggtccaagac caaggacgcc gatgcctgtc tccggagggt 420
cgtcaaagcg ctcgaggagg ccaaggaggc ggcgttggtg gcggccaaag ccaaacaact 480
ggacgggatc aaggacgatg agggaaccga cgatgaagac gacagcgatg acgatggcag 540
cgttaccagc agaggtcacc cctccgacgg tgacgaanag agtgccaaaa aagaggaaat 600
gtaataaaaa agttttaaac ctataaaagc ctgaaagcta ggtgaggata cttgactnga 660
gcattccttt ccaagctggt ggtacct 687

<210> 53179
<211> 650
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D6

<400> 53179

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ggctccgcgt cctccggctc tcccaccga gccgagacca cccatccaag cgcgcgcagc 120
tccggaagcg acagggccgg acgagcgctt cccaaattta gcagccgcgg agcgcgtggg 180
cgtgggtccg taaggagggt cgatggggta cctgccgtcc ctgagcagca aggcggcgca 240

cttcgtgtcc gacctcacca ccgatcatcct cagccccgtc tccgagcgcg agacgtccca 300
cctccccgag gttgacgaag tgctagaaaa tttggacgat gataaagatt ccgagcacia 360
ttccgatagc cttgatggcc ctgacacatc ttcctttaga gcattcttga tctcattttt 420
gtcatcatcg agctctaata acgattcaat ggagataatt cctgagcaga atggggacat 480
gggttacccct actttaacac ccatggggaa gggaagcaag ggaagaacgg gtctgttaag 540
tagggggaag cattccatcg gaaaaatcat taacaaggcg gcaaggatta gtggtttcaa 600
acaaacaact gcagagccta aaattgacag ggaggcagta actcatactg 650

<210> 53180

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D8

<400> 53180

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gcgactgcgc ggcggggcgc gtggagctac gcctcgtcgt catgggcccgg gtcaagtaca 120
tgagcggggc attcaggacc ggatggcgcg ggctatacct gcgctgcgat gtcaccgtcg 180
gcctctgggt ggacgccacc gcggggcgacg acggagccgg ggacgtgcca ctgctcgagt 240
accccaagtg ctccgtcgac gcttgagttg atccttgatc ggcgcaatgc atgagcgcgc 300
agatgatcag attttcagaa ttctggtgga gaataaggaa ttggg 345

<210> 53181

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-E1

<400> 53181

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aagatagaga acataaatga tcagtactgg acattacgag ctgaggagat cccagaggaa 120
gagaagaatc ttggcccaca tgatcgattg attcatgttt accatttcat gaaagaccct 180
aaccagaatc aacaaattca aaattttgga gatccttttt tgatgggttat tcgggaaggt 240

gagactgctg cagaggtaat ggagcgcac cagagaaaac ttagagttcc tgatgatgag 300
 ttctccaagt ggaagcttgc attcatatcc atgaaccggc cagagtacct ncaggacact 360
 gacgttgat cagcacgntt tcagcggaga gatgtatatg gtgcttgggg acaatacctt 420
 ggcttggagc aactgatac aacatcgaaa cggctctacac atccaatcag aatcggcaca 480
 cctatgagaa gcccgtaaaa attattaatt gagaaacctt catcaagggt caatccattg 540
 tcaaaggcgt cgacagcagc ttgcccaagg tgatacgacg ctttaaacgg aaaaatc 597

<210> 53182

<211> 700

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-C5

<400> 53182

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 aactacagga gtactggaag cagtcccaa gttctacgcg tcctgcccc aatgcataatg 120
 ctgctgataa atggattact gagtttggca agcaaaataa taatccagaa aattgggcga 180
 actctttcga acaacaatat ggccccaatg ggtgggcctc tgagtttgaa cagcatcagt 240
 ctcatatggc catgcgccag atgggaggag cgaacatggc caacctggct gctatggagc 300
 aatccccgagt gcttgcacaa acttttagcaa gtaataatga tccaagttt cagaattcta 360
 agttcttcca gtttgtttca aagatgagcc gaggtgaact tattatagaa gataatcaag 420
 taaaagaagg ttcagcatcc caatccagt gctgggctga tgaatttcaa acaccgtaca 480
 ttgctaatac aaactcatgg gcagatcagt ttgcacatga agagctttca caaggggcgg 540
 ataagtgggt tagcgagttc tctagtcaac ctaatcatgg tgactaaat gagaactggg 600
 ttgatgagtt ctcgaaataa atgttactga cgaatgggca gaggaattca gtggaggtgg 660
 ttntggcgaa agctctgctg gatcatgggt agatgagttc 700

<210> 53183

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B2

<400> 53183

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atctacaaca aagacatgga gctacgacgc gattcccaag tatgatggat tccactattc 120
atcaaccgaa attatggcgc gcttcaatcg tggctacgct gatggggaac tgatccgtta 180
tggtgtgctt ggatcgtggc tgtgtggaga tgtgtggaac tcattgggta taatgggtgat 240
gctgatggaa ctgattttgc tcccgttggg cggcctgatt ggttactttg ccctgttgac 300
tgtttgagaa cgtatccgcc aggtttactt atacttactg ctttttgacg gtactgt 357

<210> 53184

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B3

<400> 53184

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tagcagaata cggctttaat cagcgcacgc ggccaatata acttgctaca ctgtcaaagt 180
gtgggttaga tgactctggt ggttctccat ggggaagaga tcagggccat ctagttgatc 240
tcgttcagag ggaagtaaaa gcgcttttac agacggcact ggaagtagct ctttcagtta 300
ttcgtgctaa tcctgcagtt ttggaaggcc tcggagcata tttagaagag aatgaaaagg 360
ttgaaggcga ggaacttgaa gagtggctaa agtcagttgt tgcataaaa gagttgacct 420
cttttatcag aggacagcaa gagcaagttc ttcagctgga agcaggctcc tagcgtcagg 480
gactcttaaa taaatactta 500

<210> 53185

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B4

<400> 53185

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 aaagtgggtg aaaatattgg tttaaagcta tgtaaatta tcatgatagg atgttacaag 180
 atgaatactc tatcatatcc cttttaagaa gaaactttat cttaaagttc atgtactacc 240
 catagaaatg gatcctatag taacacattg aacac 275

<210> 53186
 <211> 691
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-B5

<400> 53186

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 accctcgcgt cttcttcgac atgaccgtcg gcggcgcccc ggcgggcccg atcgtgatgg 120
 agctgtacgc caacgaggtg cccaagaccg cgagaaactt ccgcgcgctg tgcacgggcg 180
 agaagggcgt gggcaagtcc gggaagccgc tccactaaa gggctccacc ttccaccgcg 240
 tcatccccga gttcatgtgc cagggcgggc acttcaccg cggaacggc accggcgggc 300
 agtccatcta cggcgagaag ttccccgacg agaagtctgt gcgcaagcac accgcccccg 360
 gtgtgctctc catggccaac gccggggcca acaccaacgg ctcccagttc ttcattctga 420
 ccgtcgcgac cccttggtc gacggcaagc acgtcgtctt cggccaggtc gtcgagggca 480
 tggacgtcgt caaggccatc gagaaggtgg gcacccgcaa cggctccacc tccaaggtgg 540
 tcaaggtcgc tgactgcgga cagctctcct agatctctct gatctggtct gttcggccgc 600
 cctccctccg tcatcgtcga ctccccctgc gtccgttcct ttggatctga antagatggt 660
 ggtgatctga gtggtggtct tagtttatca t 691

<210> 53187
 <211> 532
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B6

<400> 53187

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 tcgtggacag gatttttact ctgcaaagt gggacactgt tggccatgaa tggtagcaga 180
 gtctagacgg tgcattctac cgctgtgctg attgttgtgt gctattctat gacgtccatg 240
 ctatgatgat catatgacga cctgaataac tgtcgagaat agtatctagt tcatgctagc 300
 tccatcatat cctgataaca tacctgatgt tcaggtgggt aacaaagctg atgtatatgg 360
 tgacaacagc acacgcgtta tctgctaaca aggcgaaacg ttggtgctgt tacacaggga 420
 acatcgactg ctctgacacg tctgataccg accgaacgat cgtggaagac gctttgcaga 480
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<210> 53188
 <211> 692
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-B8
 <400> 53188

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 ttttggtttc aagccatggc gaattctcgg attggacgtt acaagatgtc tactctctca 180
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 tggagtaaca cattgaacac tcttctgcag caagcctcag tatatgggtgt ggccgctggg 300
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 aatgtggata ctttcattgt gttccgctct gctgtgccta tatttgtcgc gatcggagag 600
 acgctgtatc ttcacagcc atggccatcg ttcaagacat ggcttttact ctccacaata 660
 cttggtggaa gtgtgatcta tggtttcaca ga 692

<210> 53189
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B9

<400> 53189

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aagggctgag ggaagggccg cggggcatgg ctgccggcc ggc 103

<210> 53190
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C1

<400> 53190

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cagtgggtga cagctgagtg tgaaactgtg aatcgaagat gagcgtggtg ggcttcgacc 120
tcggcaatga gagctgcac gtggcggtcg cgcggcagcg cggcatcgac gtggacgaac 180
tgctggaagt cgcgaagatc tacggcgctc atgtgatgcc gaccttctgc ttcacagga 240
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ggaagtacgc cgnccgtggc actacgacgg ctctgcctc ggcgtccgcc taattcagga 360
gatgtgatgt gtagcaaata gcgcgcgcgc accagtcgtc aataaataaa ttaataaata 420
aataaataaa taaataaagg ccaacgtacg acgacaaat 459

<210> 53191
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C10

<400> 53191

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caccgtcgtc ctctgggagt gggccaaggg cgacaaccag cgctggaaga tcctgccttg 120

gtgaacgtga acagagacga gctagatgaa tccaaggaac cttacctagc tgctgccgcc 180
gccgcctaatt tcgtcctcct cgcgtctagc tggtatctgt ctgtgtcttc gcgtcctcgg 240
ttcctgaatg gacgaataat atatagcatg catgtacggc tagcgaccat gtcttgatga 300
catct 305

<210> 53192
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C11

<400> 53192

gagagcatca acaacaagct gcagctgctg atgaagagcg gcaagtacac cctgngctac 60
aagaccgtcc tcaagacgct gcgcaactcc aagggaaagc tgatcatcat cgcaaacaac 120
tgccctccac ttaggaagtc tgagattgag tactacgcca tgctggccaa agttagtgtg 180
caccatttcc acggaaacaa tgttgatctt ggcaactgcct gcggcaagta ctacaggggtg 240
tgctgcctca gtatcatcga cccaggtgac tcggacatca tcagtaccac cccttgacc 300
c 301

<210> 53193
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C12

<400> 53193

ggtgacctcg gtggcggcga gggccacaac ggggtgggtct cctgcgtcag gttctcccca 60
aacacatttc agcccacat tgtctccggt tcctgggacc gcaccgtcaa ggtctggaac 120
cttacgaact gcaagctgcg ctgcactctc gatggtcacg gcggatatgt taacgccgtc 180
gccgtgagcc ccgatggatc gctctgcgcc tccggcgga aggacgggtg tactctgctg 240
tgggatttgg ctgangggaa gaggtgttac tcgctggatg cgggctccat catccactcc 300
ctctgcttc 309

<210> 53194
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-C2

 <400> 53194

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 cggcggccat gtcgcagccg gggcgacgg tggccgaggc ggcgcagccg cagggtcgcg 120
 gccccgcggg gcgccagggc ggctggggc agagcatcgc aggcacgtg cgcatggcgg 180
 tgttctggta ctttgcgtcc aagttcttcg ggcccaagcg cccaccgcg gaccccgga 240
 tgctcatgtc caacctcttc cagaagggcg agccaatgga tatgtggatg tatttgtcag 300
 agaacgagaa gttcaacgat tttgctaag aggatgcact tatttggcac gaggcaaaca 360
 taccatatgc agtctgggga cctaccagta ctagaacacg gtcattaacg tactatccgt 420
 cagaggctct caagcataat ggctctttgt atgctcatgt ttactt 466

<210> 53195
 <211> 542
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-C3

 <400> 53195

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 tcggagaaga tcattgaaga aatccgaaac agagagtggg gcttgcttct aatggatgag 120
 gtccatgttg tccctgcaca tatgttcaga aaagtcacgc gcattactaa atctcactgc 180
 aagctgggtc ttactgctac ccttggtgaga gaggacgaac gtattactga cctgaatttt 240
 ctaattggac caaaactgta tgaagcgaat tggttggatt tagtcaaagg tggatttatt 300
 gcaaatgtgc agtgtgcaga agtatggtgt cctatgacca aagagttctt tgctgagtat 360
 ttgaaaaagg aaaattcaaa gaagaagcag gtactgtatg tcatgaatcc gaacaagttc 420
 agggcttgtg aattcctgat tcgattccat gagcaacaac gtggagacaa gataattgtg 480
 tttgctgata aatctgttgc actaactact tatgcatga aactgcgcaa gccaatgatt 540

<210> 53196
 <211> 526
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-C4

<400> 53196

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 tacctcggga gctggctcgt caggaagctc ctcggcagag gctgcgtcgt ccacgccacc 120
 ctgcggagcc tcgcggacga gaagaagacg gggctgctcc gggcgctccc cggcgcggcg 180
 gagcggctgc ggctgttcga ggcggacatg tacgacgccg acaccttcga gcccgccatc 240
 gccggctgcc acttcgtctt cctcgtcggc acgcccctga cgcacgaccc caccagcacc 300
 aagtacaaga acacgacgga ggcggcgggtg gacgcggcgc gcatcatcct ccggcagtgc 360
 gcgctgtccg gcacggtgaa ggcggtcatc cacacgggct cggtcacggc cgcgtcggcg 420
 ctcaaggagg acggcagcgg gtacaaagac ttcgccgacg agtccaattg gacgccgctc 480
 aacctctnct acgaattcac caacgcttac ctggacgact acgtgc 526

<210> 53197
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A10

<400> 53197

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 cgggtggcggc ggaggctacg gcggcggctc catgcggcag cagcagctat ggccggcaggc 120
 gccgtgaccg cggttatggc ggctgcggca gctactgcgt gtcggcgcca aggtggcggc 180
 tgccggtact gacgcagagg cggatacagag ggtcggcgcg aggggtggcgg cggcggctac 240
 gtgctgcagt gcatgctgcg gctgcaggta ctgatgtgta ggcccatgct ggcttctgcc 300
 gaggtatatt atctatctat agtat 325

<210> 53198
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A11

<400> 53198

ccttctcgct cgtcgccgtc gtcaccgtcg tgctcgctcg ggagccgcac cgcgtcaggg 60
 tgctcggcag cgtctgcctc gccttctcca tggcgtctt cgtcgcccc ctgagcgta 120
 tcttcgttgt gatcaggacg aagagtgccg agttcatgcc cttaccctc tccttcttcc 180
 tcaccctcag cgccgtcgcc tggttcttgt acggcctctt caccaaggac ccctacgtca 240
 cgctcccgaa cgtgggcggc ttcttcttcg ggtgcatcca gatggtgctc tactgctgct 300
 accggaagcg caagccggcg tccgtggtcg tcctgccgac gacga 345

<210> 53199
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A12

<400> 53199

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 ttaagaagga gacgcttagg atcgagcctg atgaagagtg ccctggccac ttgctcgttg 120
 ccttcacctt tgacgccacg gtcgctggca gcatgactgt ttacttgttt gcaaaggaag 180
 agtcaactg caatctaaca gcagtgaaag aagacctaata gaagcccgtt actgtagct 240
 tcaaagaggg tcttggtcaa aaattcatgc aaccttcagg aacaggaatt gacttttaata 300
 ggttgagga atcagattaa ttaaggcagg gggccttgaa ggataatcac ttggcggtta 360
 aggttgaaca acattggttg gtgatcccc accagaaggg gatgacccaa agatgaaaac 420
 tcctaactta cagatcccc a 441

<210> 53200
 <211> 539
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A2

<400> 53200

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ccgtcaaggc cttttgagag tccgtgagtt tacttttagcg gaaattgagc actttgtgga 120
cccagaggac aaatcccatc caaagtttgg tgatgtttct gatctagagt tctggatggt 180
tccgagagag gatcaaatgg caggaaggtc agccacaaga cttaaactcg gaaattctat 240
atctgaggga actgtgaaca atgagaccct tggctacttc attggaaggg tctacctttt 300
cttgacacaa cttgggattg acaaggatcg tctccgtttc cgtcaacacc tgccaaatga 360
aatggctcat tatgctgctg attgttggga tgcagagatt gaatgctcct atggttggat 420
tgagtgtgtt ggaattgctg ataggtctgc ctatgactta cgtgcccact cggataaaaag 480
cggcgagaaa cttgaagcac atgagaagtt tgctgaaccc agagaagtgg agaaattag 539

<210> 53201

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A4

<400> 53201

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tgctccttg ttctcttttag cataggcatg ggcattggcca ccgctgctgc aaaccgcaaa 120
ctgggttatg gccccggggg aggaggtggc ggtggtggta gcggtggcgg tggaggcggt 180
ggttacggag gaccaggcta tgggtccgga tcagggtatg gtgagggcgg tggcagcgga 240
ggtgctgctg gagggatg acatggtggg ggcggcggcg gcggtggtgg tgaggggtgcg 300
ggagctggtg gctctgggta tgggtccggg caaggatctg gctacggagc tggcagcggt 360
gctgccggtg gatatgggag tggcggaagt ggtggaggt 399

<210> 53202

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A5

<400> 53202

cccacgcgtc cggtaggggtg ctcttgata aacgagctca ggagtcgtta ctccttcgca 60
 tgcttgacat aaccggactt cctcacctgg ttgctctagt atgatgtgga gcgtctagtt 120
 aaaaaaatc gatgtagtat gaagcacctt gctgctctga atattaacag gcaattaagg 180
 caaggtgctg tttcggtttg gtggaccgca tgttgagat aataaattag ttgttttgc 240
 atttgcgtc 249

<210> 53203
 <211> 708
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A6

<400> 53203

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 gcctgaactt gttgaaagag cactaaaggg acgctatcaa gatgcgatga acatactcgg 120
 gcctcagggc cgagaactcg acttgctgat tgttatactg cctgacaata atggttctct 180
 ttacggggat gtcaaaagga tctgtgagac taatcttgga ttggtctccc aatgctgtct 240
 gactaaacat gttttcaagg tgaacaagca gcagtatctt gcaaagtgtg ccctgaaaat 300
 aaatgtgaag gttgggggaa ggaatactgt gcttggtgat gctttggcaa ggagaatccc 360
 ccttgtcagt gacatagcga ctattatctt tgggtgctgat gtgacccatc cccatcctgg 420
 ggaagattct agtccttcca ttgcagctgt aagtgaagac ctatcctgac aaagaaatgc 480
 tacctttcag ttgaagcttt actatTTTT tctactgtt tttctcctag gtggttgctt 540
 ctcaagactg gcctgaggtt acaaagtatg caggattggt gagggtcaa gccatcgtc 600
 aagaattgat acaggatctt ttcaaggtat ggcaagatcc cgaaaggggg actgtctctg 660
 gtggcatgat caggagctt ctcatatctt tctggagggc aactggac 708

<210> 53204
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-A7

<400> 53204

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tgccacntcg gggactcggc gtcactcgtc tctgactcgg acgacgagaa gaaggggtcc 120

ttgttggcgt ccgcggctga agccatgaag gccaaatct accgcctttt cggccgggag 180

aggcccgtcc actccgtcct cggcggcggc aagcctgccg atcttatact atggaggaac 240

aggaagatct ctggcggggg acttgctggg gccacggcca tctggcttct attggagggc 300

atggagtctc atcttcttac cttggtgtg 329

<210> 53205

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-B1

<400> 53205

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acggcgggga ctgcgtcgtc tgcgtcgtct actcggacga cgagaagaag gggtcctcgt 120

tggcgtcggc ggcggaagcc atgaaggcca agatctaccg ccttttcggc cgggagaggc 180

ccgtccactc cgtcctcggc ggcggaagc ctgccgatct taccctatgg aggaacagga 240

agatctcttg cgggggtactt gctgggtgcca cggccatctg gtcctattc gaggtcatgg 300

agtaccatat ccttaccttg gtgtgccact gtctcatact ctgcgtggcc atactattcc 360

tgtgggtccaa tgcctnact gtcataca agtccccacc gaacatttct gaggtcaaaa 420

tccttgacga tgt 433

<210> 53206

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B10

<400> 53206

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agggaaaccag agagcaaggc gaggagcgcg gaagggctga gggaaggggc ggcggggcat 120

ggctcgccgg ccggcgctgt gggagcaggg cggcgacgag tacgactatc tcttcaaggt 180
 cgtgctcatc ggcgactctg gcgtggggaa gtccaacctg ctctcccgtc tcaccaagaa 240
 cacc 244

<210> 53207
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H7

<400> 53207

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 tcatcaaggg aactaactag gattttgagt gttcagaagt ctccagtgat ccatttgttt 120
 agtgaatcaa ttgctggtgc tgctacaata aggggttttg gtcaagagaa gcggtttatg 180
 aaaaggaatc tttatcttct tgactgtttt gctcgccctt tattttccag ccttgctgct 240
 attgaatggc tcttgctgcg aatggaattg ctttcgactt tcgtctttgc tttttgcatg 300
 gcaatacttg ggagctttcc ttctggcaca atcgaaccaa gtatggctgg cctcgctgta 360
 acatatggac ttaatttaaa tgctcgcatg t 391

<210> 53208
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G1

<400> 53208

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 atacaagctt tcgagcgctg catgcacctg ttcaagttaa tgaccttcac ttaaaactcaa 120
 tcatcctgcc agggatttac aacgagggaac acttctaaaa acccaacatt 170

<210> 53209
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G11

gcagttcctg agttgcaatt ggtgtatggc attgctgttg acagagtcta cactggcaca 60
 cttatgacat cacttgatat ggcaggatta tctattacca ttatgaagtc cggcgaaagc 120
 attttgaaga gacttgatgc tcccactaaa gctccagctt ggcctgttgg ttctgaagga 180
 aaccgtccac cagcaaagtt tctgttctct ctaccacat caccttcaat gaaggatgac 240
 gagattcttg ctccatctca ggagctgagc aagcaagggg gtatcctgga ggctgntatt 300
 gaagcaagtg ctactgaaat tatcaatctc atggatagcc taaatgaatg gga 353

<210> 53212
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G4

<400> 53212

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 ctctggctgc tctccatgat ccttcttgca tcgtgtgtcg ttcattgctca cattattaat 120
 gggcggcaaa gcaacaccgg gagcctcact atgaccacga cgggggaagc aagcatgata 180
 attggagatg agaaagatgc aatttgctat ataaaagccg cattgtattg ctgcaaaagg 240
 actatacagt gctatcagga catagcgcaa tgcttgagga actgccgtaa aaatgtctaa 300
 caagaggcta tgctttctcc aactcgtaga tggagatcat aaagatgtta cgtagacct 360
 aatcatgcat agaccggagg agaaatataa gcttattagc ccatccataa ttaataactt 420
 cgta 424

<210> 53213
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-G6

<400> 53213

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 gagttaatt ccaagctata tcagagactc ttcagttgct gtcattgtat tcgatgttgc 120
 aagcaggcag tctttcttaa atacatccaa gtggatagat gaagttcgca ctgagagggg 180

gaaacagcag gcaagtga aaacagagaat cgatcttttt gatgggcaa gtgctgaaga 180
 tggcttttgg gaagaaaatg tctgttagc atcaaataatg acaaaccagc agttaatgga 240
 tcaaggcaat caactaatgg atgaaactga tcaagctatt gcacgatcta agcagactgt 300
 ccaagaaacc gtcaatgtgg gcacagaaac tgcagctgct ctgaaagcac agacagaaca 360
 aatgagcaga gttgttaatg agttggattc catccatttc tccatcaaaa aggcatctca 420
 attg 424

<210> 53219
 <211> 146
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H12

<400> 53219

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 gcgtgcgagg aggggaacga cacggacgag tgcgtgcaca ggcggctgct cgtcgacgcg 120
 cacctcgact acatctacac gcacca 146

<210> 53220
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H2

<400> 53220

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 tcagcgagac ccacgacacc ctccgcttcg gcctcaatgc cggcgtaag gccgacctcg 120
 cgccgccgca cccgctccag tccagcatcc aatcgaggc caagttctgg gcggacaaga 180
 agaagtttgg gacagaggcc atctacggat ccgccttgaa catccgcaag gatctcgatg 240
 cccaaatcct ctcaaggttc caaaggcccc ctgggtgcttt gccatcatct ctgcttgat 300
 atgaggcact gacaggttcc ctagatgatt ttggttttga agattatctt aacatgcctc 360
 aagattctga aggtttccgt caacctgaca tgcaccacgg aat 403

<210> 53221
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H3

<400> 53221

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gaaaaaaagg agtaatcagc tgtgacacga aaaaaaacga atccttttgt agctcgtcat 120
ttattggcaa aaatcgaaaa ggtcaatatg aaggaggaga aagaaataat agtaacgtgg 180
tcccgggcat ctagcattct acccgcaatg gttggccata caatcgcgat tcataatgga 240
aaagaacata tacctattta cataacaaat cctatggtag gtcgcaaatt gtgggaattc 300
gtgcctactc ggcatttcac gagttatgaa agtacaagaa aggatactaa atc 353

<210> 53222
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-H4

<400> 53222

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gccaacatat gcatggggat ttctaactta tcaggatcaa ttgtagcaat gcttctaattg 180
gacaagctag gtagaaaagt gcttctttca gggagttttc ttgggatggc ttttgcaatg 240
gggcttcagg ctgttgagc aaaccgtcag tatcttggtt ctgcatgtgt atatctttca 300
gttggtggca ttctggtggt tgtctggtca ttttactag gagcanngcc ctgtccagga 360
cttttttgcc tgagattttc ctaataaaat 390

<210> 53223
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H5

664450 5445660

<400> 53223

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ggcatcggtg gcgctgagca gcgggcaccg gatgccggcg gtggggctgg gcgtgtggcg 120
gatggagaag gcggacatcc gcggcctcat ccacacagcg ctccgcgtcg gctaccgcca 180
cctggactgc gccgctgact accagaacga agctgaagtt ggtgacgcgc tcgcagaggc 240
att 243

<210> 53224

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H6

<400> 53224

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tggaggaata aggaggagct gagcaaagga caccggatgc cggcgggtggg gctgggctg 120
tggcggatgg agaaggcgga catccgcggc ctcatgcaca cagcgctccg agtcggctac 180
cggcacctgg actgcgccgc tgactaccag aacgaagctg aagttggtga cgcgctcgca 240
gaggcattcc agaccggact cgtcaagcgg gacgacctgt tcatcacaac caagctgtgg 300
aactcagacc atggacatgt gcttgaagcc tgcaaggaca gcctgaagaa gctgcagc 358

<210> 53225

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F9

<400> 53225

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gcgccctgca gaacgctgcc tccgtggctg gaatggtgct gactacccaa gcaatcgttg 120
tggagaagcc caagaaggct ccagcagcag ctgctgcagc ggcaccatag ggttctttca 180
ccatgtaata atacttttcta gtgaaaaaca attttactag gcatggaaca ggcacgttag 240
agtgcgagg agaaaaaact atttttgtca tgcgtgggcc ggaataaatt gagtcaggaa 300

ttgcatggat tttgggccag gacgatttgc aaattggttg gattagagtg tggatggctg 360
attggacatt gtatcctatc tgcattctgt tcaactcagtt ggctaattca catttctctc 420
c 421

<210> 53226
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E11

<400> 53226

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aacattttta aaaatccaaa cctaaacca attcattcca cgtcctttta caactaaagg 180
accgccaaaa ccaattta 198

<210> 53227
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E12

<400> 53227

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tacaatacaa tatggtacgg tgccttattg gttcatgatc ctatgcctta tataatccta 120
gtcttcttca ttcctt 136

<210> 53228
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E2

<400> 53228

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ctcctcatcg gcgacttttc cgccggcgac aggaaacaac gaaccaaacc acttctctgt 120

cgagaggcgt cgcgctcctc tcttcgcctt ctgctgttat ttttcttaac ccggctttct 180
ctcgattgct gcgtaaagtt gaagatgagg aagctcaagt tccatgagca gaagctcctc 240
aagaggcaca atttcttgga gtacaagagg gagggcgggc accgcgaggc gctcgtcaca 300
cagcgctacc gcctcgtgga gagggacgac tacaagaagt acaatgggat atgcttaatg 360
gtgcaaaagc tcgttaacat cataaagcag atggacccaa gagacccttt cagaatccag 420
atga 424

<210> 53229
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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tgatagttgt atataagatc tgtggactgg gggcgatatca gcgcattcta cacagctaag 180
ggttgcatag ttgcgagAAC tgaagcatgt aaatgtcttt aaactgccat ctgattgaga 240
tgcagtagta ctgctgttct ggaataagac atgtctgctt ttggggaaaa tgattcaaaa 300
aatgtttcgt ttgaactcag cgtctgctga aaatgaattt gggtcccgac ccctgttctg 360
gttggccgaa attcaaaata ataaagcana tggaccca 398

<210> 53230
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E4

<400> 53230
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tgataggcgt atatctgac tgtggactgt tggcgatatca ccgcattcta cacatcta 180
ggtagcgtat gtgcgagAAC tggagcatgt aaatgtcttt aaactggcat ctgattgaga 240

tgcggcacaa ctgctgatct ggcattgagac atgtctgcta tcggcgaaaa cgattcaaac 300
agcggttacgg tcgaactcag aggctgctgt acatgaattt ggttgcg 347

<210> 53231
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E5

<400> 53231

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ccatgttttt tttaaaattt aattaatatt ctttcttgca gtgcacagtc agtgagatgg 120
tatttatcta atatatcgtc ttctccaca cccattctcc ctttgacaat tgaagaaaac 180
tgcagccact ggaggtccaa gattatagag cgcagaaaag tctctcgtgt tgaaattttg 240
tctccatcct ggtgcataaa cggtttgctg gacagactgg cggaagagta caaagacaaa 300
gcgatgtatt ccagcagatg gctttgggtt ttcatactg acaatttcac ttctgtaat 360
aaaatttggt caaccatgac acagtgaaaa 390

<210> 53232
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E6

<400> 53232

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ccatgttggg gataaaactt aatgcatatt ctttcttgca gtgcacagtc tgcgagatgg 120
tattgatcta atctatcgtc ttaatacaca cccattctac ctttgacact tgatgaaaac 180
tgaaggcact ggacgaccaa gattatcgaa cgcaaaaaag catgtcgtgt agaaatttta 240
cctgcatact gttgcgtaag ccgttagctg gacagactgt cgcaagagtc caaagacaca 300
gcgatgtc 308

<210> 53233
<211> 425

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E7
 <400> 53233

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 aaggtgctcc gcgacaacat ccaggggatc acgaagccgg cgatccggcg gctggcgcg 180
 aggggcggcg tgaagcgcat ctccgggctc atctacgagg agaccgcgg cgctcctcaag 240
 atcttcttgg agaacgtgat ccgcgacgcc gtcacctaca ccgagcacgc gcgccgcatg 300
 accgtcacag ccatggacgt cgtctacgcg ctcaagcgcc agggccgcac cctctacggc 360
 ttcggcggct aggtatgcc ggtcgcgctc gcgcctcgct gtcgtcgctg cgggtcttgg 420
 ttctg 425

<210> 53234
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E8
 <400> 53234

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 gtgtggctca tggttccaat ctaacaataa ccatattaac tataatgaga tatttgtgtc 180
 gcaggggata taactataaa ttggacctta tagaaaaaaa gagaagggtgc attacaatca 240
 ccaatcatatc atatagattg cccttgggtc accaaaaata tacacaaata gaaagccata 300
 agattaaaca catcatcacc cagcggtccg cgacgcgtg ggccaaagcc aaagccaaag 360
 aatcctcttg acttgctgcc accaagcaag atggtccttg atgactg 407

<210> 53235
 <211> 216
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E9

<400> 53235
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 gggaatacaa catccaacta taagagatct atatctctag cgcctaataa tgttgaccca 120
 gattatgatg aactagatc ctgcgctcaa gctactacgc aatccttgtg taagacaaat 180
 ctgtctacct ctacctaaat ttgaaaaccg ggaaca 216

<210> 53236
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F1

<400> 53236
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 aaaatttcaa aacacaaaaa agacaaaaaa aaaccaaacc aaaaacaaaa acaaaacacc 120
 accaaaaaaa aacaccacta caacatccat 150

<210> 53237
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F11

<400> 53237
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 atcgtcgttt tcttcctcgg gcttgctctg gtcatgcgtt ttttgttggt tgacttaact 180
 tcattttact ggatgttgct ttccttagtc gtgactgtaa agaccttggc gttcccgatc 240
 ttaatggcct tgtactgctt tgcctttttt ccggttgggg ctttccctgt agggctctgac 300
 cc 302

<210> 53238
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F12

<400> 53238

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gttacagcga gtcatgcctc gattcatgag ccaacgcggc tacttcaccc gc 112

<210> 53239

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-F3

<400> 53239

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acggcaccgg cggcgagtcc atctacggcg agaagttccc cgacgagaag ttcgtgcgca 120
agcacaccgc ccccggtgtg ctctccatgg ccaacgcggg gcccacacc aacggctccc 180
agttcttcat ctgcaccgtc ggcacccctt ggctcgacgg caagcacgtc gtcttcggcc 240
aggtcgtcga gggcatggac gtcgtcaagg ccatcgagaa ggtgggcacc cgcaacggct 300
ccacctncaa aggtgggtcaa ggctcgtgac tgcggacagc tctcctagat ctctctgac 360
tggtctgac ggcgcgtc cctccgtcat cgtcgactcc atctgcgtcc gttcctttgg 420
atct 424

<210> 53240

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F4

<400> 53240

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ctccgccccg ccgcgcgtcc cgccaggacc tactccgccg cggccaagga gataactgta 180
cgggaagcat tgaataccgc attagatgaa gaaatgtcgg cagacccttc tgttttcttg 240

atgggagaag aggttggcga gtaccaaggt gcatacaaga tatccaaggg ttgcttgac 300
aagtatggcc ccgatagggt tctcgatact ccgatcactg aagcgggctt cactggcatg 360
ggtgttggtg ccgcttacca tgggtcttcga cctattgtag agttcatgac atttaacttt 420
tcga 424

<210> 53241
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F5

<400> 53241

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aagaaaaaaaa aaaaaaaaaa agaaataaat aaaaaaaaaa aaaaattaac aacaacggat 180
aaaaaaaatt aataatgcta ccgtagtgac cccttggcta ttcggaaatc tccgtcattt 240
tcaaacattt cgacttggga ataaacgtcg ttaggccat ttagcggttg ggcacaaaaa 300
actttttcac ctg 313

<210> 53242
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E10

<400> 53242

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tttgatctac gataagttct atctctagct ctacaggcag ctgatcctgc tgattaacaa 120
cctagtcatc gatcaggtgc tttgtcaagc tcaacatcat ccacatcgac gatctt 176

<210> 53243
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-F7

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 tggcggccgt cgcgtgctg ggcgtgctct tcgcggcgag cgaggccgac gggacgtgca 180
 acgtcgaccg gggcacggtg ctgaggcagt gcgcgtcctg ctcgagcggc gcgccgagcc 240
 aggggtgctg cgacgcgctg aggaacgccg acttcggctg cctctgcagc aactactgga 300
 acaagctcaa gaacacgcca tacgccagct gcgccaaggc catcccttcc gcgtgcaacc 360
 tcccatacgc caagtgccag tagatggaga catggagtgc gtgacccgga cagcgaac 418

<210> 53246
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C5

<400> 53246

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 ttggtactca atggcaagag tacaattcca caccttggag gcgcagagct cggtttcctg 180
 tatagtgtac ctgagcagag ttttctggtt ctcttcgac ggcttaatat tcccagagtga 240
 tgagactcct aaaggagca gactcctcac atgtagattg catgaacgcg cagaggccgg 300
 ccacagctcc aagtgaccga aacaggctctg gggggccgtt tcccacatcgt cttctgcctt 360
 ctgggcttcc tgccaatcct ttcttcgcac ctacttttta ggagctcatg tgcttaactc 420
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<210> 53247
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C7

<400> 53247

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 aaacgccacc ggaaggtgct ccgcgacaac atccagggga tcacgaagcc ggcgatccgg 180

cggtcggcgc gcaggggagg cgtcaagcgc atctccgggc tcatctacga cgagaccgc 240
 ggcgtcctca agatcttctt ggagaacgtg atccgcgacg ccgtcaccta caccgagcac 300
 gcgcgccgca cgaccgtcac agtcttgac gtcgcatacg cgctcaagcg ccagggccga 360
 accctctacg gcttcg 376

<210> 53248
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C8

<400> 53248

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 actgatattt ataataatat actcaatcct gatgggttgt gcccaataac atacaaaggt 180
 ggataattga ggtcactggt gcggcgagac accctatacg tctgcgagac ctaccagctg 240
 caggttgact tacgtgagca ttatcctatg gatgcacctc atg 283

<210> 53249
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D1

<400> 53249

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 agtggcaact caacatccct gctggattca agcacatggt ctccaataac ctacaaacgt 180
 gggtaattga ggtcactgga gcagccggca cggtttacgc caccagacc taccagttgc 240
 atgtagacct gcctgagcat tatcctatgg aagcaccaca cgatcatcttg ctcaatccag 300
 taccaatgca tccacacatt tacagcaa 328

<210> 53250
 <211> 422

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-D10

 <400> 53250

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 gttgcgccgc cgccgcgctt gcggtcgccc tcatcgctgt cgttgccggc gcaaccgcgc 180
 cggggtcgcc ggccgcgggc acgtgcgcgc ggaggggtgc gctaccgttc ctgcacgccg 240
 tcggatcccg ctgccccctt gtcgggatcg agccgtcccc gcctctcgag gtgagaggag 300
 aggctgtgga tactgagttg aaccttcgaa ggaggggtgc ttcatactcc attctcttct 360
 atgctgcatg gtgtcctttt tcgagcaaatt ttcgaccgat atttgaaact gtcagcacta 420
 tg 422

<210> 53251
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-D11

 <400> 53251

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 ctccatctac ctgccccgt ccccggcgtc caaccttccc gtgctgtact ggctctcggg 240
 tctcacctgc accgacgaga atttcatcat aaagtccggc gccagcgcg ccgccgctgc 300
 ccacggcatc gccctcgtgg cacctgacac ctncccacgt gggttaaata ttgaaggaga 360
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<210> 53252
 <211> 419
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-D12
 <400> 53252
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 tgggtccagag cggcgcgggc ggcggggagt tcgccgcaa ggactacacg gacccgtcga 180
 cggcgccgct ggtggacgcg gcgagctgg gtctgtggtc gctgtaccgc gcggtgatcg 240
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 agcaccagac ggacgcgtct gcgtcgggtg ccggggctga cgcagcgtgc ggcagcgtgg 360
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<210> 53253
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-D2
 <400> 53253
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 caaactgggt tatggccccg ggggaggagg tggcgggtgg ggtagcggtg gcggtggagg 180
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<210> 53254
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-D3
 <400> 53254
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gtccaggagt tccaggcact acacgacaca cacttggctc cagatgagca ttcatagtat 360
ntcgtcttcc atgtcaatta acctataaac tctttaataa tggacgtctc gatgatgtgg 420
tatcatccat g 431

<210> 53255
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D4

<400> 53255

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gtccaggagt tccaggcact acacgacaca cacttggctc cagatgagca ttcatagtat 360
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tatc 424

<210> 53256
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-D7

<400> 53256

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53255-53256

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accctaccaa	gtcgtccctg	aaccogaacc	tgtaccgccc	gacatttgca	ggatttgctg	180
acacggacat	ctcgaacggc	aagatatccc	tgagaagcct	gatcgaccgg	tcggtcgttg	240
agagcttcgg	agccggggggc	aagacctgca	tcctctccag	ggctctaccg	tcgctggcca	300
tcggcaagga	cgctcgcctc	tacgtgttca	acaacgggag	ggcgcacgtc	aaggtgtccc	360
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atata						425

<210>	53257
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<212>	DNA
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<400> 53257

<210>	53258
<211>	430
<212>	DNA
<213>	Zea mays

<400> 53258

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gcttgaacta 430

<210> 53259
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C2

<400> 53259

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agctgaggat agacgagaga agaagtgagg aattataata gtgatttaca aggcaacttg 360
aaagacagca gggttgcac ccacaatgtc agtcccaac agtgatagca acatgcagca 420
gctagtc 427

<210> 53260
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A7

<400> 53260

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gatatttgat gcatccaact atctacattc aacgggagtg gggcttatgc agacgggcta 180
atcatggtcg agttatacat ttagacaggt gatctcacag tgacatctct tgaaacttga 240
gaggcttcat atgggccatg taacacatgt ctaagcgga atggaccact tcgctttagg 300
cgatagtgcg tacatagtta agcccaataa gatactcatg acagatagtc caaatatctg 360
attcagggca tccttacacg ccgtgacatg aacacgttac ttgttctcaa g 411

<210> 53261
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-A8

 <400> 53261

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 tgccatctat gccaatgttt tacctatatg tctgtatcaa tgtttcagtt aactgagatg 180
 agattatgct t 191

<210> 53262
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-A9

 <400> 53262

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 gaagatataa aagaaaaaag aaaaaagtac gctagcattc gtggtactag gttttctata 120
 gtgtgactta aattgtattt gttggctgta tttttacatc gttgagactg ggagaaaccc 180
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<210> 53263
 <211> 397
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 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-B11

 <400> 53263

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 tgaagaaggc aggcaatggg gccgtggacg aagtggtgga caagtgagag atgagtaccg 180
 tacagattat gatcctggta gaggtggTTa cggtAagatg gttcagaggg aactagaagc 240

acaaagagaa ctagttgact atggtggatc tttccaacca aatgcaccan cttcctatga 300
gagaggtgag cggaagagag gatacgggga ctctcattgg aatgacagan gagattacca 360
gcggaacgc taccggagca gcgatgaccg gtcagca 397

<210> 53264
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B12

<400> 53264

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gaggcgagga cctccaggca ccgccctccc tggttcggcg gtcctctcga ggccttcctg 180
cccaccggtt cagcagctcc cgatccgcac ggccaaaggc cgattcgcgc tcctccagcc 240
ttcctccgcy tccaacagca agtgaaaaac ttcaacccaa gaatggcgat gtcttggaca 300
agagggttaa agcatggtgt tgttccgagg catgccgctc aattggtaga gagcagaagc 360
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ctca 424

<210> 53265
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B2

<400> 53265

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ggcggcatgc acggcgaggc gcagcagcag cagaagcagg gcgccatgat gacggcgctc 180
aaggccgga cgcccgagc cttcggcggg tcgatgctgg tgctgtccgg gctgatcctg 240
gccggcaccg tgatcgcgct cacgggtggc acccccgtgc tggatgatctt cagcccgggtg 300
cttgtgccgg ccgccatcgc gctggcgctc atggcgggcg ggttcgtcac ctccggcggg 360

ctcggcgtcg ctgcgctgtc cgtgttctcc tggatgtaca agtacctgac gggcaagcac 420
cc 422

<210> 53266
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B3

<400> 53266

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aacgaaccat gtctcgtgtg ccttttcgtt agctggggtg gtgtgtccct ggtctcatcc 120
caatactgaa tctgtagcgt ttcttggtcg tgcaggatca tttcaagaag aagcccagct 180
tcccgataac cctcaagtac atcgaccga cctacattat ccgtgccctc cggtcgaatg 240
cttctgacaa cgtctactgc actcttgtgg cccacagcgc cctccatggc gccatggcgg 300
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ggatcaccga gaagcataac aaggtggtga tca 393

<210> 53267
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B4

<400> 53267

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gccgtcggcg ctgcagaccg cggcgggcag gatcagcggc gcgtagcctg cccatttcgc 180
gaggaccata taattccaag accctgatga tggccacaac tgcttatatc gatgattcct 240
gctcggaggt tattgatccc ccgaagactg aggtgctgga tgctgctgaa ctccctgggtg 300
accatactca gaaccacca aaaccgaatg ttcgggtgtc tagcagcgtg cgtgaacttc 360
tggaatgtcc agtctgtatg agtgccatgt atcctgctat tcattcagtgc tctaattggtc 420
atacatt 427

53268 53269 53270

<210> 53268
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-B5

<400> 53268

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ttcttaagca tttggagaaa aaagagactg aatatatgcg cttgcagaga cacaagatgg 120
gagttgaaga ttttgaactt ctgactatta ttgggagagg tgcatttgga gaggtgcgtc 180
tttgtagaga gaagacatct aagaatgttt acgcaatgaa aaaactcaag aaatctgaaa 240
tgcttcgtag gggccaggta gaacatgtca aagctgaaag gaaccttctt gctgaagttg 300
atagtgttta catagttaag ctctattatt ctttccaaga cgaagagttc ttatatctca 360
tcatggaata ccttcctggc ggngacatga tgactntact tatgcgcaag gacatactaa 420
cagaagatga 430

<210> 53269
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B7

<400> 53269

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gcttccggtta cttcaacctg gtgctgatca cgaacgtggc cggcgcgggg gacgtggtgc 120
gcgcgagcgt caaggcggcc agcaccgggt ggctgcccac gtccaggaac tggggccaga 180
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accgccgcac ctccacctcc tggaacgccg ccccgagcac ctggcagttc ggccagacct 300
tcgagggcaa gaacttcagg gtctgatgca tgggatggga tgcgatggga tgggacttgg 360
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<210> 53270

<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-B8

<400> 53270

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caggttaatc aaggcaggac atcacgtcga ggtgaccggg atacaaacgg cacaggctga 120
cgtggagggtg agcttcgagg tgtcgcéggc ggccttggcc ggtgccgaga cgctggaccc 180
ggcgctggcc tacgacgcgg agaagctgtg cggcgtgaag cgcgcgacg tgaggggagg 240
cgtggggccg ttggggctgt ggggtgctggc ctncggcaac cgcaaggaga gaaccgacgt 300
gttcttcagg gtgttcaagc ccgtcgncgg cagcgacaag cccgtggtgc tcatgtgcac 360
cgaccctacc aagtcgtccc tgaacccgaa cctgt 395

<210> 53271
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B9

<400> 53271

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tctgatggag ggtctcgact ggcaggggtgc agtcaaggat atccaggctt cagttaaagt 120
gctgaagtca aatggatcac ccaagggttg tgttactggc tattgcatgg gaggtgcttt 180
atcaattgca agtggagttt tagtcccaga ggttgatgct gttgttgctt tctatgggac 240
accatcttct gagcttgctg atccttctaa ggctaaggct cctatacagg ctcatctcgg 300
ggagcatgac agttttgttg gtttttcaga tgtcactgca gccaagtccc tggaggagaa 360
gctcaaactt tccgggatac catatgaagt tcacatatac cctggatgtt cgcatgcctt 420
catgaacac 429

<210> 53272
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C10

<400> 53272

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 ataatgtgtc acgcatcacc atgggtggca gtgtcagtgat gagcaatgac ctgaatgaac 120
 aattgaaatg aaaagaaaaa aagtactcca tctgttccaa attaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa actggaaaaa ccaagaaaaa acccaaataa ataaacttgc aaaataataa 240
 cccctttaa cagctggcgt aatcccaa 268

<210> 53273

<211> 429

<212> DNA

<213> Zea mays

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<400> 53273

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 tatcctgtag atatggatat cagagagctg atttcattgg atgatgttat ggaggagatt 180
 gggttggggc caaatggcgg tctcatctac tgcattggag accttgaaga cagcttggat 240
 gattggtttg atgaacagct agagaactac ctagatgatg attatcttgc gtttgattgc 300
 cctggccaga ttgaactctt cacacatgtt ccagttctgc ggaactttgt cgagcacctg 360
 aaacgaaaaa atttcaacgt ttgcgcttgt taccttcttg attcacagtt tgtcagcgat 420
 gtaacaaaa 429

<210> 53274

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C12

<400> 53274

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 gattgcaatc tatatatcta gactaggaac taacatgtac tagattgtat tgtcatagct 120

gcttctgtgt tggaggacgt ttgtggatct agagggtgat ctgttgatca caatgccaac 180
tctatggtgt ttacaagaaa actaatctac tgcattggaac accttgaata cagcttggat 240
gataggtttg atgaacagct atagaactac ctagatgatg attatctaga gtacgattgc 300

<210> 53275
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G8

<400> 53275

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gtgcagtttc agctgactgt caatgtagtg gcaactgtag tgaacttctc ttcagcctgc 180
tttacaggaa atgcaccact aacagctgtt cagcttcttt gggttaacat gatcatggac 240
acccttggcg cgcttgccct agccacggag ccacctaag atgacttgat gaagagagag 300
ccagtaggaa ggacagggaa attcattaca aatgtgatgt ggaagaacat tcttggtcag 360
tctttctacc agttctttgt gatgtgga 389

<210> 53276
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G9

<400> 53276

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aatgacacta tgcaatgtga tctggaacct ggtttcttgg gtgcgacgct ttagccgtg 180
ttatgactgt cgtccgtaaa atttgggggc tccccgtaag ggatgctgcc tggcaaggcc 240
tcggtgtccc acctcgtctg tggcgtgggg cgctggagcc cggctctggtt gggttgggaa 300
gccctttaa ctggtgtcac ttgcatttta ccttttccat cgcttggtat tgtgagtgg 360
cctatatc 368

<210> 53277
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H1

<400> 53277

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aatgcagaca tacctgcagt ctatcagtaa aaggcttgaa gagtggaggc tgaggcaaag 120
ggacatggat gagtggatga gacaccatca actcccatct catcttcaag aacgtgtgcg 180
gcggttcggt caagtcaa at ggcttgctac aagaggagta gaagaagaat ccatcttgca 240
agctttgcct gctgatattc gtcgggatgt gcagcgtcat ctttgattgg acctcggttag 300
acgtgtacct tttatctctg agatggataa ccaacttctc gatgccatct gtg 353

<210> 53278
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H2

<400> 53278

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aatgcacaca tacctgcagt ttatgagtaa acggcttgca gagtgatggc tgaggcaaag 120
ggacatggat gagtggatga gacaccgtca actcacatct catcttcaag aacgtgtgcg 180
gccgttcggt caagtcaa at ggctcgctac aagaggagta caagaagaat ccatcttgca 240
agctttgcct gctgatatta ctcacgatgt gcagcgtcat cttatggttg acctcggttag 300
acgtgtacct tttatctctg agatggataa acaacttctc gatgccatct gtg 353

<210> 53279
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H3

<400> 53279

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 gcttttgcac ggctgttca ggtcccagaa cgactatgat ctggatgtta cacggtgcac 180
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 gtgcatctat gctctgaaga ttgtcgtcag cacctgcggc agtaccaagc tgctggtgac 300
 aatttcaagg atgctagaac ttgcttaaaa gcgtgctatg cctctt 346

<210> 53280
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H6

<400> 53280

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 acctcgtcgg cgcagctgtc cacgggcttc tactcctact cgtgccccgg cgtgtacggc 180
 gccgtcaagt cggtgatgca gtccgccatc gccagggaga agcgcacggg ggctccatc 240
 ctccgcctct tcttccacga ctgcttcgtc cagggtgtcg acgcgtcgtc gctgctggac 300
 gacacgcca gttccaggc cgagaagatg gccaaccta acaacggctc cgtcagggga 360
 ttcgagggtc tcgacgccgt caagtccgcc gtcgaaaagc tgtgccccgg cgtcgtct 418

<210> 53281
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H7

<400> 53281

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 tgactctgtt ctggatcttg cacggtgcac gatcgtgtcc gagctctcca acaaggattt 180
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<223> Clone ID: LIB3079-041-Q1-K1-A1

<400> 53284

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 tgtgaggttg gggaagttca agaattgtcg aacccatggt gcggtggaag gtggccatgc 240
 caatgccaat gccaatgcca atgctaattc caggggtgtt actagggatg aaggggagag 300
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<210> 53285

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A10

<400> 53285

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 accttcaagg tgtcaattaa acatagagtt ttcgtttttc gctttcaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa acaaaaaata ataaaagatc caagctaaca agctcttaca 180
 tgacgacgac atatctcatg aggtaatgcc acctaaaatc aattcaatgg tcccatttat 240
 acaacgttgg gactgcgaaa a 261

<210> 53286

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-A12

<400> 53286

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 cctcaccgag gtgcgcaaga acggcacctg cgcttggtg aggcccgacg gcaagaccca 120
 ggtgacggtg gactacgtga acgagggcgg cgccatggtg cccgtccgcg tgcacaccgt 180

gctcatctnc acccagcacg acgagaccgt caccaacgac gagatcgccg ncgacctcaa 240
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<210> 53287
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A2

<400> 53287

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 cgaaataatg aatcaattgc tgatgctagc taaagtaagg ccttttggtc aagataagca 180
 gcttatgaac tggaatcacc atcttattga ctgatttgc ccccttttat taaaacagcc 240
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<210> 53288
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A3

<400> 53288

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 atatttgatg catccaatta tctaaatcca acaaactctg gtattatgct tactgtataa 180
 tcatggtcgt attatTTTTT agtctgttga tatttactg gcataaattg tttcttctgt 240
 gctttcatat ccactatgta acccatgttt tattgtttgt agagaactac aatttatgct 300
 caagtcaatg ctgctcttcg caaaataaga gacacatcag agtttgtcca atcttttgca 360
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<210> 53289
 <211> 336
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A4

<400> 53289

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ccctccgccg ccaccatgtc gctgatcgcc ggggaggact tccagcatat cctgcgtttg 120

ctgaacacca acgtggatgg gaagcagaag atcatgttcg ccatgacctc aatcaagggt 180

gtcgggcgcc gcttctccaa catcgtctgc aagaaggccg acatcgacat gaacaaggag 240

gccggcgagc tgacgcctga tgagctggag cgcctgatga cggtcgtggc caaccctagg 300

cagttcaagg tgccggactg gttcctcaac aggaag 336

<210> 53290

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A5

<400> 53290

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aatgctcgta cagatgtgaa gcctgaccat tttgctcgtg aagctaagga gttcttacgc 120

acgaggttga ttggcaaaca agtggctggt gaaatggaat actctcgaaa gatcagcact 180

gtagatggac agagtgtgc tccaacagca aacatggctg atacaagagt tttagattat 240

gggtcagttt ttctgggttc accatcacag actgatggag atgacacatc ttctgctccg 300

agctctgcta gccagcctgg agttaatgtt gctgagcttt tgctctcacg aggctttgct 360

aaaacatcta aacacaggga ttatgaggaa aggtcacact attatgatgc tttattagca 420

gc 422

<210> 53291

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G7

<400> 53291

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<210> 53294
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F3

<400> 53294

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cttccttgc ttaacttatt tggcttactt ttgttatggc tt 222

<210> 53295
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53295

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tatcctgtag atatggatat cagagagctg atttcattgg atgatgttat ggaggagatt 180
gggttggggc caaatggcgg tctcatctac tgcattggagc accttgaaga cagcttggat 240
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cctggccaga tngaactctt cacacatggt ccagttctgc ggaaacttgt cgagcacctg 360
anacgaaaaa atttcaacgt ttgcgctggt taccttcttg attcacagtt tgtcagcgat 420
gtaacaaaat aca 433

<210> 53296
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F5

<400> 53296

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aaatatggag aagcaggtct gaaaggtgct ggcatgggca caggagatta ctcaaaccgc 180
cttgatctat tctagtcctt ggttgaagga ttccgtggta tgggtggaat ggggtggcgg 240
cttgctgtcc gtaacagacc aatgcaaggt gatgacgaga gctacactct ggtactcaat 300
ttcaaggatg cggtgtttgg tgtggagaaa ag 332

<210> 53297

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F6

<400> 53297

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attcggatca ccctcttact ggtgctgagt atctttctga ttgtgccatt tctcgcctcg 120
gcatgacaag gcatgtattg cttcaccggt gaggaacatt ggggcagctt accatgggtcc 180
tgctcgtact acatacagat catgactggg ggtgttctct cgccggcaaa tgcagcaaac 240
caaccatgtc tttcctgtgt ggtgtggctg ctgcatatgt gacaggaaaa gaagcacggc 300
ggtgaagggt tcaactgtgc aatgcgtgat gctccgatac catgaactcc tcaccgggcg 360
cataaccatg ctaagattta tcagggttat gataa 395

<210> 53298

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F7

<400> 53298

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ctctgcgctg tcgccggccc ggccgccgag cagaactgag gctgccagcc aaacgtatgc 180
 tgcagcaagt ttggctactg cggcacgacc gacgagtact gcggcgacgg gtgccagtcg 240
 ggcccgtagc gctcggggcg cggcggcagc agtggcgggc gtgggtgcgaa cgtggctagc 300
 gtcgtcaccg gtccttctt caacggcatc aagag 335

<210> 53299
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F8

<400> 53299

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 attccatcag caagcagccc atgcatggac aaacttgctg gtttcaaagc tgcgttataa 180
 ggcaatactt cttattataa tactgtaatt cagaagacac aaaacacgcc acgaaaccac 240
 gcgcgtcacg ctcatctgga agttgatgca acgaacctaa tgacgtaact gacgccctac 300
 catgcacaac ggaaattgag ccaggatatga atctcactgt agctagctct gattgggtcag 360
 tttattgaga cgatccggac gctgctattg acaaactgtc atgggggacta ctg 413

<210> 53300
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F9

<400> 53300

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 aaaaaaaaaa aaaaaaaaaa aggggagaaa attttaaggg atccaaaatt acaaaccaa 180
 aaaaaggggg ggattatatt taatataggg ccccttaaat ccatttaatg gaccgaattt 240
 ttaaaccttg gggactggaa aacccttgag gttccccact ttatacactc ttgggcattg 300
 gaaaattttg gaagttgggt aaatacaaaa agggccctaa ccaaccgctt ttccaaacgg 360

ttgaaaaccc aaaagggcaa atggaacccc ccttgaaaag gggctttaac cccgaagggt 420
atggggga 428

<210> 53301
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G1

<400> 53301

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cgctagtcct ccccgaggctc agaagcttat cgaagatact acgtctctgc attcagggtg 180
gaaaaacgat cagttgtctg gtgcaattct tattaaagcc tacttgagca atgcatcgga 240
tattcttggt ggatataatg cgggtggttat ccctgtaatt tttgtgtcga gatttgatga 300
tgataaagac accagtgcctt tatatgaaga actttggg 338

<210> 53302
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G11

<400> 53302

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acaaatttat tattcctgcg attagcaatt atgctggggc gttcttcac cgtctttttg 120
cttccatctt cgccactggt attttgagc ttcgatggag tgggtgtggc attgaggatt 180
ggtggagaaa tgagcagttt tgggtcattg gtggcacctc tgcacatctc tttgctgtgt 240
tccaaggtct cttaaaagtg ctagcaggga tcgacacaaa cttcacggtc acatcaaagg 300
caaccgatga tgatggtgac tttgctgagc tgtatgtgtt caagtggaca actcttctga 360
tccccccac cactgtgcctt gtgattaacc tggttggtat agtggctgga gtgtcgtatg 420
ct 422

<210> 53303
 <211> 140
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G12

<400> 53303

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 acctcgctag tggccggtcg accctggcta ggatgcacac tcacgcgatg cggtatttgc 120
 ccacgcgtcc gaaactatga 140

<210> 53304
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-040-Q1-K1-G2

<400> 53304

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 gcagtgagca gacggatctt ccttgtccta ctgctggatc accgacattg cggatgtcag 180
 cgctcagtga attgcagaac agtctttcaa actgatgcgc taccatttcg tattggaaaa 240
 caaggacaag cggttcggcc cagaagtgtt ttagtactcg agctgcatgc aggccattt 300
 agcacgatct ggctatgact tctacatgg ccagaagcc gtcgtctact gatcgtcca 360
 gcttcttctt ccttcgtcgc cgctgggctg gtaacattca ttcgcggacc atnctgcctc 420
 gatcgaagtt agcg 434

<210> 53305
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G3

<400> 53305

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 tcaagtagcc ctactgatat agagagccat attagacctg ggtgtattat tctaacaata 240
 tatctacggt tagttgagtc tgcattggca gagctttctg agaatatgag cctgcacctg 300
 gataagcttt tgagtagctc cactgacaac ttttgggcat ctggcttggt atttgtgatg 360
 gttcggcgctc gcttagcttt tatgctcaat g 391

<210> 53306
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G5

<400> 53306

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 aaaactgcag aagttaaaag gcaaacacaa ttgataagt ccacggaagt tggtagagcc 120
 gatacaacca aggaaaatga ggagaagagc agcagtgttc cagaaatact caacgcagca 180
 tgtagtaaca aggagaaacc caacaaaatc gcaacagacg gatgatgcct tggctagttg 240
 actgggaaaa tgagatagct tctggaacgg acttcaactt gaattcctga aatcataagt 300
 tcgatgtgcg caatgtcaag aaaccacaat tggatcatggg ttctctggca ttttctcatg 360
 gaagtgaag 369

<210> 53307
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G6

<400> 53307

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 ctgttaatac tgatcgtgca attattactt gtcttggttag gctgggattg cgaagaaaga 180
 gaacatcaag attcacgggt tctaaggagc ctgtaaatgc ttgtgcccta tattgtgtgc 240

ctccacatat tggggagctt gaagcatcga cagttactag tcattgctta cttatataag 300
aacataagta gtatttgcta ttgtcaagtg tgccttgctt gatgcaagtt gtgttttcgt 360
atcattatta ttatgcacgg tcatcgtacg tgtatggctt gtatgggtta ttgccaaactt 420
aat 423

<210> 53308
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D4

<400> 53308

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaatataa acaaattaat 180
aaaaaacttt aaaaatacaa aattaa 206

<210> 53309
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D5

<400> 53309

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tctggtgctc tcttcataaa ccgcacagca agtcctcttg cttggtttat ggagtgcgaag 120
gaccggacca agcggagttc tgtgatgttg ccatacactt ttctgccaac aatggcaaca 180
aggaaactga gggatgcagc aaacaagatg aaagagatac ttggtgacta tgatgctatt 240
catgtgagac gaggtgacct actgaagaat aggaaagata gatttggagt tgagcgaagt 300
cttcacctc atcttgacag agatactcgc cctgagttta tcaagaaaag aatcgc 356

<210> 53310
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-D6

<400> 53310

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ccctgttctt tgggcatgga gctgatcaca aatgtcaccg agtacgagaa gtcgcgaag 120
gagaggctgc cgaagatggt gtacgactac tacgcctccg gcgcagaaga tcagtggacg 180
ctcaaggaga accgggaggc cttctccaga attctgttta ggccacgggt actgatcgac 240
gtctcccgtg tcgacatggc cacaacatt ctgggcttca gcatttccat gcctatcatg 300
atcgctcctt cagccatgca gaanatggct catcctgatg gagagcttgc cacggcaaga 360
gctgcagctt ccgcaggaac aataatgaca ttgtcctcat ggtctacttc cagcgttgaa 420
gaggtcaact cagttgggcc 440

<210> 53311
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D7

<400> 53311

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gagaatgcct tcgcctccta cggcgagatc ctcgactcca aggtcatcac cgaccgggag 120
acggggaggt cccgcggctt cggcttcggt accttctcct ccgagaactc catgctcgac 180
gctatcgaga acatgaacgg caaggagctc gacggccgta acatcacctg taaccaggcc 240
cagtcccgtg gcggtggcgg tggcggcggg ggctacggcg gcggtcgcgg cggcggcggc 300
ggttatggtg gcgggcgccg tgacggcggg tatggcggcg gtggcggcta ccgcggtcgg 360
cgcgaagt 368

<210> 53312
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D8

<400> 53312

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 actaaaattt atttaggggc ttatcatttt gttaagaatc atttggatgg tgaccatta 120
 ccatctctag ttgtggctcg ttattgcata gaagctagcc gacagtggaa gatcggcttt 180
 gtacagggat gttcgaaact tcgaatcagg ttatttgtgg tgtatatata atgccaaatt 240
 accaatcaca agaagtaaaa aaaaagtcac tcaactgtc 278

<210> 53313
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D9

<400> 53313

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 gaattgatct tgctgtatat gagactttga aagatgtgtc gaagacatat atactgaagg 120
 acagtgatcc tggctctcta gtacagcttg gttgtgggac ggtctctgga gccctagggg 180
 caacatgtgt ttacccttta caggttatca gaacaagact gcaagctcaa caagccaatt 240
 cagaatctgc ctatagagga atgtctgatg tcttttggag aaccctacat catgagggtg 300
 tttctggatt ctacaaggga attctaccaa atctccttaa 340

<210> 53314
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E1

<400> 53314

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 attattccac aatgctcact tgctcctagt gccattattc cacagttcct cccaccagtt 180
 acttcaatgg gcttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg 240
 gcgagcgtct tacaacaacc aattgcccaa ttgcaacaac aatccttgcc acatctaaca 300
 atacaagcca tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc 360

atggt

365

<210> 53315
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E10

<400> 53315

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tactctgcga aatgctgaat acaggctttc ttttgaaaga aatctagaac tgcctgaaga 120
aggtgtagaa tgcctaaaaa gtgatgtcac tgaagataat catcataaca tcaatttggg 180
aagacctgtc actattttta gattatccga agaagacatg cctcaggacc ctggaaaaaac 240
cgatgaagca tcattcttatg aaaatatggg agaagagctt ggtgacttaa caccacaggc 300
agaggagtat attattcaga tgcaatctca tttgaatgcc atgaaaaagg agttacatga 360
tctcaggaga aagaattctg ccttacagat gcagcagttt gttggggagg aaaaaaacga 420
c 421

<210> 53316
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E12

<400> 53316

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taataattcg tgtgaaaaag ttgattatat ggttcctgac aaaaaaaaaa aaaaaaaaaa 120
aaaaacaaaa aaaaaaacia aaaataaaca aactaaaaaa aaaaaaaaaa aaaaaaaaaa 180
gacaaagaaa tactgcattt acgaaaaaaaa acgaaaaaaaa ggcattt 227

<210> 53317
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E3

<400> 53317

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gcaaaagaaa ctcaggtgcc cacacaaagt gctaggtttg ctattcttca cagttctgat 120
ttttagcatt taaccaaagc gtttgtgtat ctttaaaagg agagtgtttt ccaatgcttg 180
aacttttcta gtaaggggtg gctacatcaa atccagcgtg tttaggatac tgctacatac 240
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tagatttttc tctctttttg gggacattct tgatcaaata agtaattatt gcttgtgtag 360
tagactagag tgggctggat taaccacac ttaaaaaaac cggaagg 407

<210> 53318

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E4

<400> 53318

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acctgtaccc caaaccactg acccaggtgc gcccagagcc gtcgtcctgg cagctctccc 120
ggaggcccat cgaggaaccg cgcggggaga tatggcgctt ctcgaggagg ccgagcgagg 180
acgggacctc tgatgccatg gaagtgcacg ccgtcgcccc gagagagagc aagaaggcgg 240
cagaggtccg cggggacagg ttcggcatcc cgcggtgcat cgaggtgatg agcgccatgg 300
cggagctgtc gccggtggag aagtcgctgg cgcccagcgt cttcttggac gcgagcaacc 360
gggagatctt cctctcgctg agtgtagata ttaggccaat ctg 403

<210> 53319

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E5

<400> 53319

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tctctgtgta tatgatgggtg cccattctgt cagcaatcca attgaatctg ttgttgagaa 180
acagaagcgt ggttctgac ttttctgtac tgcttgtgag atggctgttg tctggataca 240
gaatcagctc cgtgaaaaca tgacaaaaga actcattttg aattatgcta atcagctctg 300
tgagcgtctc cctagcccca atggcgagtc aactgttgat tgccatcaga tctcacagat 360
gccaaatctt gcattcacca tagcaaacat gactttcacc ttaacaccag agcagtagat 420
agtga 425

<210> 53320
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E6

<400> 53320

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tgacatgtgg gccggggcag gccggactcc aataaaaacc agataaactc atgtagagct 180
ccttgatcta tctacttttg gcttttcttc cgttcctctt gtcacacct agcttttctt 240
ctttcatcct tctctgattg gttgtttata cacaaacaca gacacggtag cagatagaaa 300
aacttggcat ttttgcgttt gcacagagtt gattcgggtg acatcagggg tgggtttgag 360
aaggacacgc ggattttttt tttctctcaa tg 392

<210> 53321
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E7

<400> 53321

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gccatcatcc tgctccgct ggggggtgtt ctcaagtac ggtgcgggca cgagttcttg 120
atctgcctgc tctcacctt gctcggctac atccccggca tcatctacgc catctacgc 180
atcaccaaga acacctagct agtcacctt gccgactac atccatgtct atgtatctgt 240

gtctgatcat atgcctgatg ccgacttgtg ctgtatgtcg ttgcttgaat tcagtcgagt 300
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gta 363

<210> 53322
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E8

<400> 53322

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aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
taaaaataaa taataaataa aattaaaaaa ataaataaaa aaaataaata aaaaaaatat 180
aagctattat caagatctac taaatagtaa tatttttgta ctattatcaa tgtctatgta 240
tctgtatatg ctcatattct tgatgctgaa ttgtactgaa tgatgttgct tgaattcaat 300
cgtgttactg atgatattgc ctattcaata gatgcat 337

<210> 53323
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F1

<400> 53323

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aaagggtgctg gcatgggcac aggagattac tcaaaccctg ttgatctatt cgagtccttg 180
tttgaaggat tcggtgggat ggggtggaatg ggtggcggtc gtgctgtccg taacagacca 240
atgcaagggtg atgatgagag ctacaatctg gtactcaatt tcaaggatgc ggtgtttggt 300
gtggagaaag agattgagat caccagatt 329

<210> 53324
<211> 317

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D2

 <400> 53324

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 gcttatacat tgacttggag cggcatctga ggttccaacc atcataagag agatgatggt 240
 acggaagagg gagcgcgact gccagaacac gatgcgcatg acgacgagca tgacggacta 300
 cgcgctggcc gacgcgc 317

<210> 53325
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B8

 <400> 53325

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 tcatcatcaa caccttctac tccaacaagg agatcttctt cgcgagctt atctccaact 180
 cttccgatgc gctggacaag atcagggttcg agagtctcac tgacaagagc aagctcgatg 240
 cgcagcctga gcttttcatc caccttgctc cagacaaggc cacgaacacg ctctccatca 300
 tcgacagcgg catcggcgatg accaagtcgg accttgctca caacctcggg accatcgcca 360
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 gccagtcgg cgctcggtttc tac 443

<210> 53326
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B9

 <400> 53326

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 gggagggtcaa tctagaa 77

<210> 53327
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C1

<400> 53327

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 ctgttggtcca tggagtactc atggctctct gtttttggca ttataggcaa catcatctca 180
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<210> 53328
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 <212> DNA
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<223> Clone ID: LIB3079-040-Q1-K1-C11

<400> 53328

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 gccgaggcgg acgaggagcg ccagggccga ggtcgcgcgc gtgcccacgg gcaaggggaa 360
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<210> 53329
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 53329

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gtacaacagc ggcgatggca aatggattgc taattctgat gtgatcacc aagtcacga 360
ggagaagtac ccagccccgt ctctggcgac gcctncagaa tacgcatcag tgggatcg 418

<210> 53330
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53330

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<210> 53331
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C3

<400> 53331

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cctgccccgc ggagagaccg gcgaccgaca acggcaccgc gccaggtcca ggcgggccgt 180

cgtcggggcg tcccggcgcg acacggctag ggaggtcggg ggcgggcgta gcggtagctc 240

tggcgttgat cccgtgtgtg ctgttactgt gaccttcaga tgtgtgtctc gtgcgatgta 300

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gggtag 426

<210> 53332

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C4

<400> 53332

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ccgcccaggc gccgtccgac gtgctcgacg ctacgggcgc gtgcgccacg gtggcgcaga 180

ccgctgggct cgtctccacc gcctgcgaca tcgtcgctag gaaagagagg catgggatgg 240

tcgtgtcttg ccccttcctg ctgtacctg tctcgctgca ggataaggcc gcgcagggtgc 300

gatcgatatg caaacccctg aagcctcttg ggattcattc agtgagcttg catcctggcg 360

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<210> 53333

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-040-Q1-K1-C5

<400> 53333

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gagcatccac cagaaacgtg gagctcagag cattggtgcc tctttcctct ttcaccaagg 180
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tagttatntg caacaatgaa ggaacatcta atgctnaata ttgatgacct aagcattctt 420
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<210> 53334
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C6

<400> 53334

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gccgtggagg cggcggcggg gggtacggtg gtggccgt 338

<210> 53335
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C7

<400> 53335

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acagttgttg ccgttctacc agcacgtgc gcctaacgct ggcaccctct tacaactgca 180

acaattgctg ccattcaacc aacttgcttt gacaaaccca gcagcgttct accaacaacc 240
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ttgtctgatg tttgtggctt cccagaaata agaaagtaca tttctagatt cttaaaaaaa 360
aacnaaaatt caaaa 375

<210> 53336
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C8

<400> 53336

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<210> 53337
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C9

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<210> 53338
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<212> DNA
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<223> Clone ID: LIB3079-040-Q1-K1-D1

<400> 53338

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gcggcgccgg tgggtacggt ggtggccgtg gaggcggcgg ctacggcggg ggctggcgcc 180
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actggaagaa ctgagcgggtg gggcccgcgc ggtcaagtta 340

<210> 53339
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D10

<400> 53339

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atggggaaga cttgcttttc ctacgcagca aagctatttt caaacctcca aaagctattc 360
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<210> 53340
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D12

<400> 53340

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<210> 53341

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-040-Q1-K1-B7

<400> 53341

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<210> 53342

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A12

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<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A2

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<210> 53344
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A3

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<210> 53345
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A4

<400> 53345

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<210> 53346
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A5

<400> 53346

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<210> 53347
<211> 371

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-040-Q1-K1-A6

 <400> 53347

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<210> 53348
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A7

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 cttgacgctt cagcttctgg tgctggtctt cttccagttg catgctggtt acctgtgtca 240
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<210> 53349
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A8

 <400> 53349

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<210> 53350
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-040-Q1-K1-B1
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<210> 53351
<211> 300
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-040-Q1-K1-B12
<400> 53351

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aggacctgga gagagaggtc ggcattggctg ccgcagtggc cgacgacgct ggtatggacg 120

ccgtccagaa ggcctcatg ttcgaagacg aatgcatttt ggtggacgag caggacaatg 180
 ttgttggcca tgagtcaaag tacaactgcc atttgatgga aaagattgat tctgagaatc 240
 tgctacatag ggcattcagt gtgttccttt tcaactcaaa atatgagctg ctacttcagc 300

<210> 53352
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B2

<400> 53352

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 tgaagggtg accatcttgc gttcagagaa ggtcaaggat gagcttggtc ttgaaggcaa 180
 tgatgttgag cttgtctctc gctccgctgc tctcataaac cagaaatgcc atgtcaagaa 240
 gaaggatatc cggaagttct tggacggtat ctatgtgagt gacaagggcc ccatctttga 300
 tgagcaatga gctgcccttt gttcctggct agcacaagcc gtgttaggct gtggccagta 360
 gactgtttg 369

<210> 53353
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B3

<400> 53353

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 acccccatcg ccgacaagat gcagatcttc gtgaagaccc tgacggggaa aaccatcacg 120
 ttggaggtgg agtcctcggg caccatcgac agcgtgaagg ccaagataca ggacaaggag 180
 ggcattcccgc cggaccagca gctgctcatc ttcgacggca agcagctcga ggacggccgc 240
 accctcgccg actacaacat ccagaaggag tccaccctgc acctggtgct ccgacttcga 300
 ggtggcgctc agaagcgcat gatgaagacg tacaccaagc ccaag 345

<210> 53354

<211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B4

 <400> 53354

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 ccaccactgc gtcgaaagag caatgcatca caactgcccc gtctgctttg agtatctgct 120
 cgactccacg aaggacatca gcgtgctgca atgtgggcat accatccatt tggagtgcatt 180
 gaacgagatg agagcacacc atcacttata atgcccagtg tgctcgaggt ccgcctgcga 240
 catgtcggcc acatgcgaga agctcgacga ggaggtcgcg gccacgccga tgcctgacat 300
 ctaccagaag cacatggtgt ggatcctgtg caacgactgc atcgc 345

<210> 53355
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B5

 <400> 53355

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 atgacaatta gactggagg atgccaagta ttcaaagggt gcattattat aatgccaaca 120
 gagcaattac tgtcttcatg atgccaatag tctgaagtc gatgaatcga gtgccaaaat 180
 tgcaaaaatc tctccatcat gggggagtta gtttcatttc gcaacagcag tgattcttag 240
 gttcttattt ctggtggcta tggtagcact tatccattaa cgatgtcatt atcac 295

<210> 53356
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A11

 <400> 53356

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 tcgccgagta tctcgcgttc gccgtcaagc gggcgggctt cctatacggc cgcacgcagc 120

cagagaccaa ggaggtcttg gtcgacttca tctatgagcc gccccagcag ggcttcgagg 180
acgtggtcca tctcatgagg gatccccgacg aggaggccccg cgtcgatacc attgccgagg 240
ggcttgggat gcgccgggtc ggccctcgtgt tcacgcaggc cgtcgggagg agggccagca 300
agactggtga gtacactatg tccaaccggg aggttgtgca tgcggcccag ctgcaggctg 360
agggcgggac cccggagtgg gttactgcca tagtcaaatt ggaggtgggg gatgacggca 420
ctggggatgt gc 432

<210> 53357
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G11

<400> 53357

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cgatccttgt cactggcggg agctccctgt tccctggcat gatccctcgg ctggagtctg 180
ggatacggca atatcggccc taccttgctc ccctgaagct tgtcggagca gctgacccca 240
ttttagacgc gtggaggggt gctgccgtct ttgcggcatc aagcaagttc ggcaaacaaa 300
cgttcagcct agctgattac ggacagcatg gagagaacct gtttcacggt tacaacattg 360
tttactcact ataaccggaa aatgacatag tgatcgaacc atctcagtca ggctatttat 420
ttaa 424

<210> 53358
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G12

<400> 53358

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gggtccgcgg ccgacgcgga gcaggagcaa aagcgggcag cggcggcggc gtacgactac 120
gagggcgacg cgcgctgggc cgagtactgg tccaacgtac tcgtcccgcc gaacctcgcc 180

<210> 53364
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-G8

 <400> 53364

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 caaagacata aacttattga aggttgatcc ctataaagga agctgggggc tccgccttct 120
 ggaacttgag cttttcaatc ctactgatgt cgatttttat gttgatgttg ctgtgcattt 180
 ggatgacacg gatgtggacc aagatgtaat ttcagactga gatgctgctt gtcacaaaaac 240

<210> 53365
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-G9

 <400> 53365

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 ttgggacctc gagcacggat aagaatgtac ttccctactg aaggctcaca gtatacccct 120
 ccacactgct ctgtcaattt cttttggaag gattattgtc ctatggtttt ccggaacctt 180
 cgagaaatgt tccacattga tgctgcagat tacatgatgt ccatatgtgg tgatgacagt 240
 ctgaaagagc tttcttcacc tgggaaaagt ggcagtatgt tctatctttc acaggatgaa 300
 cgttttgtca taaaaacctt gagaaaaact gagttgaaga tactgttgaa gatgctacca 360
 aaatattaca atcatgtcag agcttatgat aatacgtt 398

<210> 53366
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-H10

 <400> 53366

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tgctcgtcca aggcgtttgt tgctggcttc gtggcatatt tgctggacaa cactattgac 120
 aggcatgaag cttcagtcag gagagaccga ggctaccatt ggtgggacaa attccggtcg 180
 tacaggaccg atacaagaag cgaggagttc tattccctgc cattcaatct gaataagtcc 240
 ttcccatcgg tctgagcttt tgctgtggtt aatgtgagat gctcttgta ctctggaact 300
 gccaccccc tgttctccgg cgggtggcacc gtgatctgga ttttctcggg acatgaaaaa 360
 attactgtat attaaaaccc gctcagctcg ggtttcaccc 400

<210> 53367
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H11

<400> 53367

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 gcgaatgagg tgttctgtcg catagagagg tccaccacgc tgaagaagct gatgaacgct 120
 tattgtgacc gccagtctga ggacatgaat gccattgcgt tcctgtttga tggccgcagg 180
 cttcgcggcg agcagacccc tgatgagctg gagatggatg actgcgacta gatcgacgcc 240
 atgcttcacc agaccggagg cagcgttcct agcaccacct aaaagcctcg ttttgctctc 300
 cgtcctgcgt agtactaaac aaaagggaaa aagtcttttt aaggaaactg tgatgctctg 360
 gtccttgtg ccattgctga gggacatcct tagcctttgt ttagtagtat ggtttggtac 420
 tatgttctgt catcactcgt ttatctatcc ctaatacat 459

<210> 53368
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H12

<400> 53368

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 gcgcgaacac gccggtgtct cgacccttg tcctcctcct tcagcaagat ggcggagatt 120
 gagataaaaa cagcacctgc tgacttcgcg ttccctacaa caaaccaaac aaggcattgt 180

tttactcgct atgtcgagta ccacaggtgt ttgaatgcc aaggggatga tgctggtgtt 240
 tgcgaaaaat ttgccaagta ctacaggtcc ctttgccctg gagaatgggt tgagaaatgg 300
 aacgagcaga gggagcatgg gacg 324

<210> 53369
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H2

<400> 53369

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 aagcctttct tgcttgaaga tgggcgccta ctgtgttgat catcagttga aagttggaat 120
 tcttgggggtg catggcttga ggtattcaga ttgttgtttg attctatttt tgcactctctt 180
 tgtaccctct ctgttagaat ggacagtcct tgtgtagtgt attgagctgt ctactgatt 240
 cattaaattg caggttcgac tgctcttggt gtgccctttt ttgagtacct gttccatgat 300
 gatgtaaata ttccttttga ttctatttag cacttg 336

<210> 53370
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H4

<400> 53370

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
 gagaaaaaaa aagaaaaaag aaagaaaaaa aaaaagaaaa aaaaaaaaga gggagaaaaa 120
 aa 122

<210> 53371
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H5

<400> 53371

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cctattgagg ctatgtgcac atttacaccg aggtcgggtgg ttgatcatca gttaattatt 120
acatgttaca gtagatatga acagattgtg atgaggttga atcgatgact aaa 173

<210> 53372
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H6

<400> 53372

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aaaaaaaaata aaaacagata aaaatgttaa ataataaat ggaattattt ttgattttat 120
tttttttaat ctatatctat attatacttc ttattgtttt atattatgtc aattaatttt 180
ttatttttta tattatctga ttttttatac tttatgattt tttttatata tgaatttttc 240
tttttactaa attttttatt tatttggtat tctatttttt atattttata ctttattttt 300
attttttaat tttatctttc ttttattttg tttttttttt ttattctatt ttattatctt 360
ttctatctta ttcttaatct tatttctatt ttcttttatt atatatgtta ttatttatga 420
attgtctttt cgttataatt tttatatatt tttt 454

<210> 53373
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H7

<400> 53373

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gctgccgggc tcattcatct tcatggctga tcggtggaac ccatccgatc ttagagattc 120
gcggtatgtc tggctgcctc tgacgatagg gggagtcctt gatgaagccg tagactatag 180
cttcattgtc cctctctggt ccccggtgtt ccatctactg gcacaaacgg aggcgtctcc 240
ctgatgagtg gaaggattct tggaaatatc tgatgtcttt tagaataatt caagatgt 298

<210> 53374

<211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-G10

 <400> 53374

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 ggccgcactc tcgcggacta caacatccat aacgagacca cccttcacct cgatctccgc 120
 ctcaaaggct ctatcccaat ctctgaaag accttgtctc taaaaacctt aacccatcat 180
 gacatacagc tactacactc aa 202

<210> 53375
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A1

 <400> 53375

 gaaggcgtca gctgctcgtg tgcttactct tggaagcttt ctggctgcta ggtagggaga 60
 tggtagtaca actatgaagc ctgaagatgc aga 93

<210> 53376
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-E11

 <400> 53376

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 agcgagcagc tgggtggcaat ggcggcagca gcggaggctg tgctgctgga cttcttggtg 120
 agcccccttcg ggcagcactg ccagatcgcg ctggcagata agggcttggc ctacgagtac 180
 cgagagcagg accttctgga caagggcgag ctgctactac gatccaaccc catccacaag 240
 aaga 244

<210> 53377
 <211> 335
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-E12
 <400> 53377

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 gcgcaacttt gtgaggagtt tgcattcacag gccctcttct atttaaataa aaatgagacc 120
 cagactgaaa tcattgatac actacaccaa gcttgttcaa agtttggctc ttttaagctg 180
 gagtgcacga ggttgggtgga ttattatgtc cctcttttct tcacaaaaat tgcttcatta 240
 agccctgaag aattctgtgc atcagcaagt ttttgtgggg gggtaacatt cattcgtcta 300
 ccaagacatg aagatacttg cacactttgc catga 335

<210> 53378
 <211> 306
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-E2
 <400> 53378

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 agagcgacaa cacacggtgc tacgagatcc tcgggggtctc caaggacgcg tcccaggatg 120
 acctcaagaa agcctaccgc aaggccgcca tcaagaacca ccccgacaag ggcggcgatc 180
 ccgagaagtt caaggagcta gctcaggctt atgaggtcct cagtgatcct gaaaagcggg 240
 agatttatga tcaatatggt gaggatgcc tcaaggaggg aatgggaggt ggtggaggga 300
 tgcacg 306

<210> 53379
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-E3
 <400> 53379

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 cctagcttgt cgaagatgtg ctacaacaga agaattggaga aaaacactat gttcttgctc 120

tttattttta tgattttttt ttattgtttt tagttttttc atttttttat ttttttttc 419

<210> 53382
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E8

<400> 53382

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ccagtagaaa agtcctgtgc atcggaggca tatgcggtga actggaacgt accaccttac 120
caacaatcgc atgacttcct cgagcatgct agagccgtat cgagtgatat ggaatcaacc 180
agtgcattgt gaaaagtcct acgtattctt agcaatttct gtgaaatgga acattaccat 240
cattaccaat caagcaatct taagacttct ttgagccatt tgcataattg tgtgaaatgg 300
ttcaatatta c 311

<210> 53383
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E9

<400> 53383

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tgctgtcac aactgatggg gttcttgtgg gtgctgtatt accttattac tgtggaggga 120
gggtggagcta cagagcaaatt cattgatctt ttgccagtgt caaaacaagt aaaggaccgc 180
tgtgttgagg tcatggatca tgccatcagt agtgtattgt tggccactgc caagattgcc 240
atattccagg gggggctgac atggctattg ttcaagttct tcaaagtgca ttttgtgtac 300
acatcaactg tgcttgatt cataagtgca cttgtgcaa tacttccatt ttggctgtcc 360
tcgatatttg ccacaaggca gcttc 385

<210> 53384
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F1

<400> 53384

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tggatgatga tggatgatgg gagactatcg gatatcatgt ctagcacaac ggcttgtcaa 120
aaaaaacaac gacgatgaag attttgtgga aggccatggg cgaatgtcat gtcttgctgt 180
tacactctat a 191

<210> 53385

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-039-Q1-K1-F10

<400> 53385

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gtgcacagat actgagcgaa gtgtgagtgc cctctgggga aagctagcag cagaaatcct 180
aatgcagaac tgggatgtgg ctttggagga attcaaccgc ttgaaggaaa taattgattc 240
aaagaacttc tcatcacctc tgaatcagct ccagaacagg atatggctga tgcattgggc 300
tctgntcatc 310

<210> 53386

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F12

<400> 53386

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agccaagaca aggtggtaat ggagagctgt tactatctca aggacgcagt gctgtactgc 120
ggcatcccat acaacaaggc gtaccggatg actgcgttcg agtaccactg cacggactcg 180
cgcttcaacc gcgtattcaa cgaacgcattg aagaaccact cattgatcat caccaagaag 240
atgctggact tctacacagg cttacaaggc gtgtcaacgc tagtagacat aggctgtggc 300

ttggggca

307

<210> 53387
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F3

<400> 53387

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aagtagtaat ggcctccgcc aacagctgga ccctcgagat cgcgtcgccg gtggccccgc 120
agcgctgtgt ccgcgccgcc gtgatggact ggcacaccct ggcgcccagg gtcgcctccc 180
acgtcgtcgc cagcgcgcag cccgtggagg gcgacggctg cgttggcagc gtcaggcagt 240
tcaacttcac ctcagtcatg ccgttcagct tcatgaagga gcgtctcgag ttcctcgacg 300
cggacaagtg cgagtgcaag aacacgctca tcgagggcgg ctggatcggc gtcgccatcg 360
aaacggcgac gtcgcacatc aaggaggag 389

<210> 53388
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F5

<400> 53388

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ccaaatggta gcggaaagag ttccatcttt aggggtgcttc gaggcttgtg gccattgct 180
tctggtagtc ttagcaagcc atctgaagga atttttaatg ttcctcaacg tccatatact 240
tgtcttgga ccttgaggga tcagatcata taccctctct ctcacgagga ggcaaagtgt 300
aagattctct catgcgaaac aagtgacaag tctacagctt ccgagcttgt ggatgatcac 360
ctgaagacga ttcta 375

<210> 53389
<211> 359

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-F6

 <400> 53389

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 acatgatgac tatagaaatg tcattttattg gaagtgcgtg cttgttagca agtacctatc 180
 ggtcaccaga tggagaagcc ataaggaaat atgggggtttt ccatgaatgg actttctgga 240
 ccatggtacc ggtattaatg aatgccgtgg gtggaattct tgatggtctt gtcacaactt 300
 acgcaggtgg tattagaaag ggttttggtta tatcatcagc tcttcttggt acttcactg 359

<210> 53390
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-E10

 <400> 53390

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 ggaaaaacac tgggctgtct tctgccaggg tttattcttc tgaagcgcct gcatcataat 120
 tcaagggaag gtccaacagt attagttttg tccccaacca gggaattggc aacacaaatt 180
 caagatgaag caatcaagtt tggcagatct tcaagaatat cttctacttg cttatatgga 240
 agtgctccaa aaagtcctta acttaaggaa tttgaacctt gttccaatg ttgtggtgca 300
 acttctggga gattgaacga cattttggaa attaattaa tgaaccttgg ccaagtatta 360
 tatcttggcc ttgattaaac ttaccctatt cttgatattg gaattgagcc accaattaga 420
 aaaat 425

<210> 53391
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-F8

 <400> 53391

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 ccccttccag ctcaagggtc tcggtcgcag accgatcctt ggattggagc tcctctcgat 120
 tctcagagac gagcggattg gctcatcagg acgaccatga cagtgaccag gctaacgaga 180
 ggcctttggt tctctgcaac aaggagccaa tgtggcacga gcagctgcag tgttggtgcc 240
 tcaacttcca tggtcgggtg acctgggctt tctgggataa actgtcagtc gattgctgca 300
 ccactactag attcttgacc gttacagcaa gc 332

<210> 53392
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G1

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 ttcccggggg tcgaggctgt cagcagcttc gaccagatgg gcattaagga cgacctctc 180
 cgcggcattc acggctacgg attcgagaag ccctccgtca tccagcagcg cgctctgctc 240
 cc 242

<210> 53393
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B7

<400> 53393
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 gcgatacaga gaaagttcta aaagcactgc aagcagtttc aaatcatctt cggaagtttt 120
 tggttgatca tagtgtactt ccattatttg aaaagactaa tactacagtg agccaagatc 180
 gcaatggtga tggttggagc gatatgtcac gtccttcaat tggttctgca caagtgaatc 240
 aactaccttc agtggttagat gactatattc ttcaagtga gagggatcct ctgtaccttg 300
 aacgagaatc tttggtagat cataacattc atcgctcagg cgtatcactt tatgggcgtg 360

aaggctgcgt ttgcagcctt aaagcaaagt tcacttgtca ttgcaattaa atgggctggt 180
ccttaaaaagg cctccatt 198

<210> 53399
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C5

<400> 53399

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aattaaaaat tagatatggg gggtcacttt gtcgggtcca tctattcctt tcccat 116

<210> 53400
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C6

<400> 53400

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gtgttcctct tccactctct cagaggagca aaggcatctt cagcatgggc ttctcgggga 120
gaaaggggca taatttctga catacgtctt cagggcgcaa tcactggaag gtc 173

<210> 53401
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C9

<400> 53401

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ggcacgtacc tcttgtgcgc cccgccggcg atgatcgcg tcgccaagca cagcaggggc 120
ggcaggtacg acctcagctc gctcagatgc atcggctctg gcgccgcgcc gctcggcaag 180
gacgtcatgg tggctatggc tgacagggtc cccggtgtcg acattatcca gggttatggt 240
atgactgaaa cctgcgggat aatatccctg gagtacgtac agaaggggtg tgcccgtcag 300

53399-53401

<212> DNA
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 <223> Clone ID: LIB3079-039-Q1-K1-D4

 <400> 53406

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 ccagcacgtg gtcatggtct gcatgtcgcg accgggatgc tcttcacgag gaagagcttg 180
 cttccagga cagccctacc ggaaggtacc aagttctgcg gccacggctt cctcgatccc 240
 gaaaggtttg aactacgagc gga 263

<210> 53407
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B6

 <400> 53407

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 tgccagatta ccttgctaag gttgaggaaa gtatggaaat ggaaaccaag aggctggctt 180
 actatctgga aatttcaagt ggggatagct acccgctctg tttgcaggct gttaatgctc 240
 ctttgatgga aacatatgtc agctatgtga cagagaaaca aatcggtggt cagctgatgc 300
 ttgaaactta caagattggt gaagaggaac tgctctgcag atgcagtaac ttgacaactg 360
 gttaaccggg caacgccgca acaatttctt ggacttaatg gaat 404

<210> 53408
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-D6

 <400> 53408

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gcgcaagcgg taggagcaat gggcagcggga caagaatgag aaggcgctcg cggacaggaa 180
 gaatgcgctc gagagccgca tgatcatctt cgcccgtgcc aagcagtacg ccgaggggta 240
 ccacgcccga gagaaggag 259

<210> 53409
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D8

<400> 53409

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 ctctgggggc tgggcaccca gatgtactca aacgctcttc gcaagcttcc ctacatgcgc 180
 catccatggg agcatttggt ggggatgggt ctcggtgcag tgttcgtgaa ccagctggta 240
 aagtttgatg agaagctcaa ggaggacctt atcaggatac ttgagctcgc caggctagcc 300
 atacgagcat gtgctacatt gacgatgatg aatagatgcc catatctatt tgccagcgac 360
 ctggatttat tttgcaacat gttggt 386

<210> 53410
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D9

<400> 53410

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 gtggaagtaa gcttgggggt gtaagctgcg gtcctagccg gtgacgatac tc 112

<210> 53411
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H7

<400> 53411

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gaacaagagg atctccaagg gaaagaaggg tggtaagaaa aagaccgtcg atcccttctc 120
taagaaggac tggtagtaca tcaaggcccc atcgggtcttc agtgtgctga acattgggaa 180
gactctcgtg tccaggacac agggtaggag gattgcctct gatgggtctga agcacagagt 240
ctttgaggtt tgtctagctg atcttcaggg tgacgaggat cagggttaca ggaaaatcag 300
gctccgtgct gaagatgtgc aaggcaggaa tgtgctcaca aacttctggg gcatgaat 358

<210> 53412
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H8

<400> 53412

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tcaatccgat ttttgaagaa ggatccaaat atgggcgcaa aaaacttaca agaggagcta 120
gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagatggcg 180
gtggaacaaa tattgggaac atgggaagaa agttttgcag atttgtatag ggtcaaggct 240
gagattgacg gcaaaaatgc ctggaagggt tatcgattta gaggtgcagg 290

<210> 53413
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A1

<400> 53413

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aactagagtg gggaaactca gatcatttaa gcggtattat tgaaaaacat cctgggtggat 180
ttgatcttgt tcttgagct gatatttgct ttcagcaatc tagcatttcc tgcctctttg 240
atactgtaga gaggattgtt cgtattcaag ctggtaaagt cagattcata ttggcttatg 300
tatcccgaac taaagtcagt gatgcactaa tactcaagga agctgaaaag catggaatgc 360

gtgttgaaaa aatgaaccgg aacaagaaca acca

394

<210> 53414
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A10

<400> 53414

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gcccttgctg ctgccgcaact actccaccgc cgactgccag atcgacgggt accacatccc 120
cgccaacacg cgcgtcctcg tgaacggctg ggccatcggc agagaccgg cggtctggga 180
gaagcccag gagttcatgc ccgaaaaggt catgcgggac ggcttggaaca aggtccacca 240
cttcagcgg caagaattca aggaccttgc cgtccggctt tggccccga tcttgcccgg 300
ggccaaattt gcgcttgga c 321

<210> 53415
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A12

<400> 53415

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tgggcttgat tatctagctc ttctgcaata tccacagcat tatctatgtt tatccaatcc 120
gctgctacat actcaciaac atgtacttct taaacctacc cagataaac actacctgga 180
aaaactccta tcaaattata catgtactga tgattctgta ccgattacac aatatactca 240
cactcactat tcta 254

<210> 53416
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A3

<400> 53416

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gcactacaaa atggtcactg ggaaagtagc agtcgtcctc ctagcctgct ggacgctagt 120
tctctaccaa ccagtgttg gccgtttacc gtgtaacaat gatcagaaga gagagatcct 180
gcgcgagtgt gatccactga actcaacacc tgactatact ccatcccggc acggtgcgtg 240
ctgctgtggcg gtgagaaagg tgccaggaac caacatgctt tgcattgcct ccatactctc 300
acttgctgac aaggccaaat acagtgtgag gaagattcta ggatttagag atgcatgcgc 360
cccttcacat ccacaccatc aggtagttaa tacttcgtct atcacttgac agtccttaga 420
ctacagt 427

<210> 53417
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A4

<400> 53417

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agtgttcta agtttttttg ggaaattttt ccaaaaaaaaa aaagaagttt ctggggaagt 120
tcgacatggt acgtcaggcg ttaccggctc attgtgaacc aatacatgaa ctgccatgat 180
aaggttataa gcagaaataa cagtagcact ggctccaatt cctgaagatg agtctggtgc 240
gccctgctgt atgaaatgga tcccactcgt ttattcgtca ccgcgccgca ctggtgtaac 300
gtgttgctc aaagtttgct ttttacctgg tcctttttta aaaataagtc tggttttggt 360
tggtacc 368

<210> 53418
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A7

<400> 53418

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tggtccgtcgt cgaggccgcc gccgccgacc acgccgcgc gccgtccag gaggaggcac 120

cgggcgcggg cgcgggcgct ggcgccgacg ccgggggagcg cgagatgcgg gatctggagg 180
acctgctctc caagctcaac cccatggccg aggaagtcgt ccctccgtcc ctgccttcc 240
ttgccgccct cacgcccgtg ctgctcttcc tcgttggtta cggctgctac ccggtcg 297

<210> 53419
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A8

<400> 53419

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tccgtgcctc ttggaaaaag aggaaccaa atcattgttc agtgctgatg caatttctcg 120
agcaaagcaa attcttgcaa ctattcctgg aagggaaca ggtgcatata gtcacagtta 180
gggtatcaaa ggactgcgtg atgcaatttg ctgctggaat tcatgtcatg tgattggatt 240
ccctgcaaat 250

<210> 53420
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B1

<400> 53420

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gctgagaggt acgaggagat ggttgagttc atggagaagg tagccaagac tgttgactcg 120
gaggagctca ctgtggagga gcgaaacctc ttgtctgttg catacaagaa cgtcattgga 180
gcccgcgcg cctcatggcg catcatctcc tccatcgagc agaattgagga gggccgaggc 240
aatgaggacc gagtaacact catcaaggat tatcgtggca agattgaaac tgagcttacc 300
aagatctgtg atggcatcct taagctgctt gagaccatc ttgtgccgtc tttcacttgt 360
ctctgagtcc aaagtcttct atctcaagat gaagggtgat tactaca 407

<210> 53421
<211> 385

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-B10
 <400> 53421
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 gggatcatca ctagagttgt ggacagcatg attgacaatc tacgccctac ccgtgcagag 120
 gcaactgatg ttgcaaatgc tgtcctagat ggcactgatg gcatttttgc tgggtgcggag 180
 acacttcgag ggctttatcc ttgtgatgca agtagtactg cggggagaat atgtgcagaa 240
 gcttagactg tgtataatca agcgcttcaa ttgaagaaag ttatgtggca tgtaaggtac 300
 ccaatgcccc accaggaatc tggggcatca acaacggttg gttctgtaat caaagtgaag 360
 actgctgcca ttggtggggt cacat 385

<210> 53422
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-B11
 <400> 53422
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 tgttcataag taactgcgca ttgccttgcc cccttgctct gctccctact cccctccgga 120
 tctacccggc tgctccattt aattactgac tcgtaccctt ccccgcatte gccttcttgt 180
 ctcttccatc ccaccgtat cagccaccgg ttcccaatgc ccaggtaggc agcccagcac 240
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 gcaggggagc ggaacgcgag gaggccattg 330

<210> 53423
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-039-Q1-K1-B12
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 ttctactgtt tcatctgttg attacgagaa cccatcaatt ccgtgctttt cgtaggctt 180
 tctaccgata gaaccttcca aatgtgacca atttgcttgc cactgtcttg gtattactaa 240
 taggtatcta ttgcaaggc ttccgtgctg agcttccagc gtgatcaa atgctcgt 300
 gccagcaagg ctcatctcca attaatgtgt tctacacttc aaacatgccc atcatccttc 360
 actctgcgct gattaccaac ctctatttta tatcccagct tctctacagg aagta 415

<210> 53424
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B2

<400> 53424

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 gacaatgacc ctggactatt cacggagagt ctgcggaaat acgaggaaga gaaagcgaga 180
 gagaaggagg ttaagtcgaa gcaagaggcc acatggagac gccttgaaga gatggcatca 240
 gcgaaagcga caagcggcgc ggcagttctc gtctctcgac ccttatcccg gcagtcttcg 300
 gctgtgtagc gaattttcat gtgggggtcg tgagaacatt gtacaggatt gagttgtata 360
 tacgaggtat attaatgtgg gcaaatttga caaatgatat cgtctgaaaa accagtcaga 420
 tgggttacag ggc 433

<210> 53425
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H6

<400> 53425

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 cggagcttac accacagctg cctaagccat tccagagtac agatggtttt actatgatcc 180

tatataagat ggc

193

<210> 53426
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B3

<400> 53426

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tgggttccag aagattgaga aacgcagact cctgctcaag atgctctttg gttttgcgta 180
tggtggccca tttggacatt tcttgacaaa aattttggat tacatcttcc aagggaagaa 240
ggataccaaa accatagcaa agaagggtgtt gctggagcaa gtgacatctt ctccctggaa 300
taacatattg ttcttgttct attatggata tggtgttgag aggaggcctt tgaaagaggt 360
gacgaccagg gtgaagaaac aatacccttc tgggcaactt agcgcttg 409

<210> 53427
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B4

<400> 53427

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atgcagatcg ttgtgaaaac cttgacgggc aagacttatt cacctctcga ggtgggagtc 120
gttttgacac cattgacaac gttaaggcca agatccaggc caaggag 167

<210> 53428
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G1

<400> 53428

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tccttcttgg gcatgatctg cgcgctcgtc tactgcaccg tcggcatcta cggcggggcac 120
atcaaccgg cagtgcctt caggctgttc ctggcgagga agttgtgcct caccaacgg 180
gtgctgtaca tgatcatgca gtgcct 206

<210> 53429
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G11

<400> 53429

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tagtaggata gcgtatgctg tgatcagcgg ctctatttcg taccacctt tcgatcttcc 180
aaagctatgt agcccttagg catcatcagt cgtgaaagg agtacagcat caccatacac 240
cgcatcttcc tgaaacaagc agccacattt ctttc 275

<210> 53430
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G12

<400> 53430

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gaccgtata agtgcaaaag ctacgcgtaa gattgcaaga gagatcaaaa ccgcacgtgc 180
gtttgggtta atgcctttta caacaatggg tagaagacca ttcatttttg gcagaagtgc 240
ggaggagcat tattgggatg atggatattt cggctatgtg aagcagaagg atggtgagcc 300
tgttgagaat gaggatgctg agccaaatgt ggaggctgtg taaacattct gaagcatcct 360
tttgcaagcg ctctgttc 378

<210> 53431
<211> 358

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-G2

 <400> 53431

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 gtcccaccga ggcaccgact caatcccat tcttggcctc tggcttcaca aaacaagacc 180
 ggttcccgtt ccctagatct ctgcgtagag gcggcgaggc acccgaatcc ggcaaaaaag 240
 ggttcgcggt ttgccttggg tgggaggagc gcaggagccc ggcgtaaaaa cccaatcttg 300
 gcgcccgggc tgccgtgcgc catcgtcttc tccccctgt ggtgtttagg gagaggag 358

<210> 53432
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-G3

 <400> 53432

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 cattatccac aagaccaagg cctacttcaa gcgttttcaa gtgaagttca agataaagcg 120
 cccctgccat acaaacttca aggcccgat taagcttatt taccagacc aaaaccagtt 180
 ccatacaacc atattca 197

<210> 53433
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-G4

 <400> 53433

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 ggcgctctca gcccggccgc gaccgccaac tcctgccgc atcatccatt cactcttcgt 120
 ctccctatcc gaccggtccg caatccgcct cctgccgcgc ccgctcctcg tcttctccca 180

<211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G8

<400> 53436

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 ctccctatcc gaccggtccg caatccgct cctgccgc ccgctctcg tcttctccca 180
 actccgccgc ctctgccgc ccgacgccgc caccgaactc ctctccacc caatcgctc 240
 gctctccac ctccaccgt ccgacatccg cataggctc cagcttcacg ggctctccct 300
 gtccgccgc ctctctgt actcgacct cctgccccac ctctctct tctactccca 360
 ccaccgtcg ctc 373

<210> 53437
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G9

<400> 53437

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 ccggcgcgag gagtgctgg ccgggacct cgagtgggtg ttccatggcc ctcccgcgcg 120
 ccagcacatg atgcgctgc tcaccggcgc tctggaccac cgcggcttcg tcttctcccc 180
 gcgctccgtc gacgcttcg gctccaccgt cgtcgccgag ggccgacg acgcgcgcca 240
 gctctactgg gtgcacgct ggaccgtggg gcccacgtg gtgatcacgc agctcaggga 300
 gtacttcaac accgacctca cgctctctc cgccagcct gacgtcgtg ccgcatgcgc 360
 tgcttcggct aagcagaaag acgctggcct tctctctcg cccttcgtg cgggaccggc 420
 agcagggccc aagtgcctgt gg 442

<210> 53438
 <211> 324
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-H1

<400> 53438

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tcaatcccat ttttgaagaa ggatccaaat atgggcgcaa aaaagttaca agaggagcta 120
gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagaaagcg 180
gtggaacaaa tatttggaac atgggaagaa agttttgcag atttgtatag gttcaaggca 240
gagattgacg caaaaatgcc tggaagtgtt gtcgatttag aggtgcanga ggaagaggat 300
ggtgtgtatt ttcgcagaft cttt 324

<210> 53439
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H10

<400> 53439

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tggcggcctc gcctgggcca ccgacgacca ctccctcaac aacgccttca gcacctacgg 180
cgaggtcctc gagtcgaaga tcctcctgga tcgggagacg cagaggtccc gcggcttcgg 240
cttcgtcacc ttctccacgg aggacgcgat gcgcagcgcc atcgagggca tgaacggcaa 300
ggagctcgac ggccgcaaca tcaccgttaa cgaggcccat tcccgccgcg gccgtggagg 360
cggcgggtgg 369

<210> 53440
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H11

<400> 53440

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cctgctccga caccggaccg acctcatgcg gcaccgatac cgccagggtga cagtcgtatc 120

tggatgaaca gccatgacgg cggaacgagt acgctgcccc gagatgcagc gacccccctct 180
gcgtcaagat gaaatgaatc aacgatacct cagacttgga tcccctgggtg gcctgtcttg 240
gagatcttag ttttaggcac ataacgggtg taaatcactg gctaaataat gacaataata 300
tttccagagt taaaa 315

<210> 53441
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H12

<400> 53441

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ggcaccgata ccgtcagggtg acagtcgtat ctggatgaac agccatgact gcggaacgag 120
tactctgtct cgaaatgcag cgacccccctc tgcgtcaaga tgaaatgaat caact 175

<210> 53442
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H2

<400> 53442

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tcaatcccat ttttgaagaa ggatccaaat atgggcgcaa aaaagttaca agaggagcta 120
gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagaaggcg 180
gtggaacaaa tatttggaaac atgggaagaa agttttgcag atttgtatag gttcaaggca 240
gagattgacg caaaaatgcc tggaagtgtt gtcgatttag aggtgcagga ggaagaggat 300
ggtgtgtatt ttgcagatt cttttgttgt ttcaaacc aaacattgatgg ttttctgaac 360
ggatgcagac 370

<210> 53443
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H3

<400> 53443

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atcactcaaa cttttcaagg atggcacggc tgtctgcaaa acatcctctc tccattatct 120
aaaaaatact tctattacat caatgccccca ttcgtcttta gcgcgcgcaa cactgagtgc 180
actgtcccggt tcatgagaca cgatgccagc attgtctacg aacgtgtgta ggcccaagcc 240
cctgatgggc gcctatctga tcttcaaggc gaccaagatc aagcttacag gaaaatcaag 300
ctccgtgctt aagatgtgca aggcaggaat gtgctcacia acttcttggg catgaat 357

<210> 53444

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F9

<400> 53444

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gaggctgctg acttgcactc tgttgtcttg tatcttcgcc aggagaagta cgacgtagca 120
gcaattgttg gtcacagcaa aggtggagat gtggtcgttc tatatgcctc tatctacaag 180
gatgtcccca tgggtggttaa cctctctggc cggtttcatt tggagaaagg cattgaggag 240
cgcctaggca aagagtttat ggatagaata aacaaggaag gctacatcga tgccaaagac 300
aaatcacgaa atgttttgta caaagtaacc aacgagagct tgatggaacg gcttgaccat 360
gatttgacg caacgagcct ttccatcagc aaagagtga ggttctatac aattcacggt 420
tcagctgacg agatcatac 439

<210> 53445

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H4

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atagactgaa gtatggcagg agatcttcca agatctctcc agttcaaagg atgggattac 120
 gggagcttag accacagctg cctaagccat tccagagtac acaaaggctt aactgatcc 180
 tataaaatat ggcatattct atcccaccac attcaccaaa cttgtatga aaaggctcca 240
 cttt 244

<210> 53446
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H5

<400> 53446

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 gccctacca gaggagtacg cgattttggg actcaatctt ctgaggctgt tggctcagaa 120
 tagaattgct gagttccata ctgagctgga tcttttacct gtcaaggcac ctgtgctcca 180
 ctgcatcaag catgctttat agcttgagca atccttcatg gtgggtgcct acaaccaat 239

<210> 53447
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E2

<400> 53447

ggccggcgag aagaacaaga tagacgccgc cttctgttac tgcggcgtgc agtacgcagc 60
 cgtccaggta tggcgcggtg cgcctaacaa cccgttgtgg acatagggtg agctcatgaa 120
 ccaaacagaa atgctttctt atatatccac cttttgtaac gtgtctccgt gaggaatgag 180
 tccatagtat ctcccatcgc cgattacaat gactgctccg acctttattt cttctgaact 240
 gatctgagct ggactgacgt atgtaacagc catggatgca acgaatcatg gaaaaattga 300
 tgtgaaaacg aaaggttttg tgtgttctgg tgcaacttaa gaaagatgac ggctcccccg 360

<210> 53448
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E4

<400> 53448

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ctccgcccac cgcgcgccgg gcgctcgcca cggcggaggt gcccgcgagg gccgtcgagg 120
actccacgtt cgtcgaggcc tggaaaaagg tcgcccccaa catcgagccc ccagcgacgc 180
ccctctccct catgcagccg cgcgcgccc cgcagctac catccctacc aagctcaccg 240
tcaacttcgt cctcccctac aagtccgaga tcgccaacaa ggagggtgac atggtaattg 300
taccagctac aactggtcag atgggtgttt tgccaggcca tgttgccaca attgcagagc 360
tcaag 365

<210> 53449

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E6

<400> 53449

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tggcttagct gaggaaagcc atcgatgacg gcgcgcgacgt ggctggctac ttcgcttggt 120
ctatcctcga caacttcgag tggcagtcag gttacacgtc caagtttgga atcgtctacg 180
tcgacttcag cagcccaag ctcgaacgac accccaaggc gtcagcctac tggttcagag 240
acatgtcca gaaacactta tgagcgtcta acaaccaagc ctgaaatagg taccattaaa 300
tttcttcagc gctgcctaag ctagtggcca tattattgta gcaaaagttg taagctagca 360
cagtgcaa 368

<210> 53450

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E7

<400> 53450

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tagctgttcc tctgtgaagc caggctccgc cagcaacact gatcgccact acaactgcag 120
cagcaataat gcctagaggt acggtactgc tggctgcacg gtagttctcg ttgctctctt 180
cctccactgt attgaaattg tctggttctt gtcggtccga tgcagctgtc cctcaagcta 240
ggaaggcgtc ccttgctcga ttcttgagga aaaggaagga aaggtagaat ccatactctt 300
attctcggtg attccattcc accacacatc tgttttggtt ttgaggcaga tctgcaactg 360
t 361

<210> 53451
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E8

<400> 53451

attgccgggt acgacaccac gcgctccgga gagagaggag ggaaaatgct gctttctacg 60
ccgcccgcgc cctcgtttcc cgcgcggcg ctccgccac cgcgcgcggg gcgctagaca 120
cagcggagat gactccacaa tgcccacttg ctccaagatc cattattaca ctggaaaaag 180
gtcgcccccc ataaatgggc ttogaacacc cagctgtgca agcgcatacg cgcccacaaa 240
caattgctgc gagcgtttta caacaaccaa tcaacttagt tgcttcaaca aagcttgga 300
catctaaca tacaaccat cgcctcatag caccaacaac aaatcctacc agcactgagc 360
cacctagcca tggatgaacc tgacgcctac ttgcaa 396

<210> 53452
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-E9

<400> 53452

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acagcagggg aggtgatcaa gtgcagagcc gccgtggcgt gggaggccgg caaacgctg 120
tccatcgagg aggtggaggt agcgcgcgcg caggccatgg aggtgcgtat caagatcctc 180

gtttttaatc tatggttagga ctggatggat tggtaggctc cttggaaaga tttgtgaa 418

<210> 53455
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-F11

<400> 53455

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tcccagagcga gttcttggtt gacctcttcc tcttcggacc acctccaagg ctcttggtgt 120
agcttgccac tctcaccaat caagttttca tgtctgatct cgacattcag atcccaactg 180
ccttcgatcc cttcgctgag gccaatgctg gggactctgg tgcggcagca gggtaaagg 240
actacgtaca cgtgcgcacg cagcagcgta atggtcgcaa gagcctgacc accgtccagg 300
gattgaagaa agagttcagc tacagcaaga tctcaaaga tctcaagaaa gagttctgct 360
gcaatggtac agtgggtccan gaccagaac ttgnacaggt cattcagctc cagngtgatc 420

<210> 53456
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F12

<400> 53456

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gatgcagacg ttcacgggga cgctgacagg gatgaccgtc accagcaagg tcgccagcaa 120
caacgccatg gacaatatcc aggacaaggt ccaggtaag gaagggatcc agccggtgca 180
gtatcccctg atgtatgtcg aggagcacct gaaggatggc cactctatca tggactatga 240
cattacactg gagtttacgc ttaagctcgt gcttaggatc attg 284

<210> 53457
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F3

<400> 53457

ggccgaatcc gccggtgaga aggggagcga tggcgaggct ggcggtggcc gcgagggcgt 60

tctccgctgc ggccctccgc ggcggcgtgt ccttgggtgca gggggcgctcc cgggggatcg 120

gcctcgagtt cgtgcggcag ctgctgcgca gaagcgatgg aggccgcgtc gtcgctacgt 180

gccgcacgcc gggttccgcg gccgagctcc agaagctcag ggaggagcac gcgcccgggc 240

gcctcacctg gctgccgtc gacgtcacgc acgagagcac catagaggca gctgcggcct 300

caatcacgga gacccacggt tctcttgacc ttctgatcaa ctccgccggc a 351

<210> 53458

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F4

<400> 53458

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atcccgggtga tcgacctgcg cctcgccggc tcgtcgcccc acgagtcggc gcggctgcgc 120

gacgcgtgcg agcgccctggg ctgctttcgg gtgaccggcc acggcgcgcc cgcggggctc 180

ctggccgaca tgaaggccgc cgtgcgcgcg ctcttcgacc tccccgacga cgccaagcgc 240

cgcaacgccc acgtcatccc cggcagcggc tacgtcgcg cctgccccgc caaccgctc 300

tacgaggcct tcgggctcct cgacgccgcc gcgcccgcg acgtcgacgc cttctgcgcg 360

cgcc 364

<210> 53459

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F6

<400> 53459

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gttctgtgga tacatcatct atgacacgga caatgtcatc aagcgctaca cctacgatga 120

atacatatgg gctgctgttt cactctacct tgacgtcatc aacctgttcc tgtctctgct 180

gcagctgctg agggcagccg atagctgagc tcgtcaagct ttcacttcga tcttggtctc 240
acatacatct gtgtatatca caaactctgt aatgggtcatg gatactccaa tttataacta 300
tactctgtcg gtgttacctt ggttcaaagt gtatgtctgg ctttaacgga taccatgag 360
agttttaag 369

<210> 53460
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F7

<400> 53460

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gaatggcttt cctgcccata ctatctgtag gcttttgcc agtagcagtc gggtttcgct 120
gtttactggc attaacattt ttactctttc ttctgcagct ccataccctt ttggtatagc 180
ttgacatgcc agcagtggca cagtgccgta ggttccttag aggtgaacta gatgtttgtc 240
agcatggttt gatgttgcca gcctatgcag aaaacctcac ttggtctttg taatgtggta 300
atgccatgta tcagtatcct agtctgatgg agttttggtt gagacagttc tcaaaaa 357

<210> 53461
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F8

<400> 53461

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aggctaaggt tatctggtcc cttgctgatg tacatgcaac acgtggttca cttgctttat 120
ctactgcaac agtgaaatcg gttgcaccag atggagagga gaaattagca tgtacagtcg 180
gagcacgttc agtcgatgca agttacatgg ctgttgacaa aatagttcac attccaaccg 240
ttctacgagt atacagtttg acttcatgga cagagcgcat tgacgcaatc tc 292

<210> 53462
<211> 417

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E12

<400> 53462

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tcagtactat cttttgaagg tggggacatc tgtggtgttt tggtcacctg tctgcatgtt 120
ggaatgtgct tttcatcatt ctgctgacat gttgaagacc atcatttgta ctactgaac 180
tacatgcatt ggggtgctcc aaagatgtgg tatggagttc caggaaagga tgccgtaaata 240
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cacaacctga ttactcaatt ttcaacttca ttgcttaaat ctgaacgagt accagtctac 360
cgatgtgtgc accatgaggg acagtttggt ctaacattcc ttcgggcata ccatgct 417

<210> 53463
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C6

<400> 53463

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ggagagcccc accctctggc tcccaccggg cgtgcttcta cgatggcctc cggcggcggt 120
ctccggccca ctgcacacac taccgcccgc gctctacgcy ttccactacg tccaccgtac 180
gctggtccac ccggtccgcc tcgcccgaact gcgcccgcgc ccggcccccg tgccgctcct 240
catcgacgcc tgcgccttgg gattcaatat cctcaacgcc tacctacatg cccgctcctt 300
cgccctacac tccagccgcc aggcgtccac cttccgctga ctgctgggc tgccctctt 360

<210> 53464
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C8

<400> 53464

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acccgaggagt cctgcctgtc ctgctctcc tcccccttgc catccgccgc ccatggcgtc 120
 cgcgctccgcc cccgaagtgg tgggtggtctt cgacttcgac cggaccatca tcgactggga 180
 cagcgacgac tgggtcatca ccaagctcgg cgccgccgac gccttcacgc gcctgcgccc 240
 aaccatgcgc tggaacccgc tcatggacag gatgatggcg gagctccacg ccagggggaa 300
 gacgcccag gacatccgcg actgcctcag gagcgcgccg ctcgacacgc acg 353

<210> 53465
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C9

<400> 53465
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 aaagccctca ggcagagttt tataaagcaa cacgaagcaa ggaccgcatt gcaagatttc 180
 agattagaga actaactgta gagcctggaa cgtgggttag cttaaccatg tatacataac 240
 gttcaaacat cgttctgact tctacaaaaa gttaagagga tctgaaattc taaatcttgc 300
 ctacgccttt ttagttagat tggaagcaaa gatagcttcc atgaccacag aaaaataact 360
 attcttttcc tgggtgtaatt tctagaagtt ttgagataaa ataaataaaa ttttttttta 420
 ttatttattt aat 433

<210> 53466
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D1

<400> 53466
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 acgtcttcta ctgcatgaac ccgcgctgcg acagggcgcg ggagatggag gagcgcgctcc 180
 tcggcttctt gcgcaagtga gcgagcgact gatcgcgcg cttgctacgc gattgagatg 240

gaataatttc accgtttcca gatgtggagg cgtttgagca tgaggccatg aggggtcttat 300
 ttgtttgctt aagatcaatt gattgaagtt tcg 333

<210> 53467
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D10

<400> 53467

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 cacttcaaag tttcagtata tgcaaaactg aatatgctgc ttcaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aacgaaaaaa taggtgtttt ctatcgtgac cccaatttaa 240

<210> 53468
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D11

<400> 53468

cctatgtcaa actacaatat gatatgtacc cttgctaaat aattgtttcg tttgctggt 59

<210> 53469
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-038-Q1-K1-D12

<400> 53469

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 aagccgaagg cggagaagcg gctcccggcg ggaaaatccg ccggcaagga aggcggtggt 120
 gacaagaagg ggcggaagaa ggccaagaag agcgtggaga cgtacaagat ctacatcttc 180
 aaggtgctga agcaggtgca cccggacatc ggcattctct ccaaggccat gtccatcatg 240

aactccttca tcaacgacat cttcgagaag ctgcgcggcg aggcgggccaa gctcgcccgc 300
tacaacanga agcccacat cacctttccg gagatccaga ccttcgtccg nctcgttcta 360
cccggcgagc tcgccaagca cgcggtctcg gagggcacca aggccgtcac caagttcacc 420
tcgtcctaag ctctttttct ag 442

<210> 53470
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D2

<400> 53470

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acaaatggaa gtggtggtgt agtaataaag aattgcacag tgataattag gtcccctcca 120
tgacttctaa tatctaaaac atgggatttt gtagctccta gttcatgact acattcatcc 180
atatgcttct tcccaagtac tagtcaatac aaaaacgctc atgtgaggct gtcctctttc 240
cgagtactag ccatatgctt cttttagtct gtactttctt tgtaagggtt atgaactctc 300
ttgaactccc tgcattctga gcaatttctg ctgctcctcg tcgttctctt ccttcggct 359

<210> 53471
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D3

<400> 53471

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tctctagtgg atgctgctta ccgaaaggca aagtcattga aggcggctag caaacggggt 180
cctggtgcaa gcaaaggaaa gaaagagaag aatgcaagac aatattctga gaagactcct 240
aacaggcatg aggagatgcg tgagctgttc cagaatgata tgagtgaatg gaaacaggga 300
cgctcctcaa agaaaaacaa caatttcgcg cacaaaaaat caaaagcttt taatagcaaa 360
gc 362

<210>	53472
<211>	360
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D4

<400> 53472

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cactgctttg	ttcagtatcc	ttctattatt	atttctgcac	tgtgatacat	tatcttgctg	180
cttgtgggct	catactggaa	caccattctt	attattatgc	aagctgggtg	ggcctaaagg	240
catgatatac	aaacagcgat	cactatgatg	cctttgcagc	ttttgctcaa	tctcttcgtg	300
attgttgatt	gtgcacatgc	ttataattct	tgattgctcc	ttgactagac	tattagataa	360

<210>	53473
<211>	144
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D5

<400> 53473

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acggcaagaa atccaaactg ggctttactg tgtaccatc tccccaggtg tcaacacttg 120
ttgtggagcc ttacaacaga gtgc 144

<210>	53474
<211>	246
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D6

<400> 53474

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gggcgcacgt	tgtggggtgc	ctttcttctc	ccacgttctt	cccacgtctt	gctcttttag	120
tgccacctat	tttcactcat	ttgccttcac	tgaccacgtc	tgactggtaa	aaccttgga	180

atcctaactt aaccgaactt aatccatccc ccttttatcc agctttcgtc atttggaaga 240
tgcccg 246

<210> 53475
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D7

<400> 53475

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ggatacacia aaggcgggtc atcttcattt attctgatta ctatcagtag ttgggtcctc 120
gttatgtcct ggcttttcgc gccttacatt ttcaaccctt ctgggttcga gtggcaaaag 180
actgttgagg actttgatga ctggacaaac tggttacttt ataaagggtg agttggtgta 240
aagggcgaca acagttggga atcttggtgg gatgaggagc aggcgcatat ccagacattc 300
agaggacgta ttcttgagac aatcctcagc cttagatttc tcatgtttca gta 353

<210> 53476
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D9

<400> 53476

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ccacccgacc cgtacggccg cgcgcccgtc gaccccgatc cgtacggtcg acctccgccc 180
cagtccgcgt acggtggggc cggggacgcc tacggccaca gcggccaagg ctacgcgccc 240
ccgccggcct acggcgccgg gggcggttac ggcaacgtcg tccacgtcgc gcacgaggtc 300
ggcgacgaga ggccttacta cggcgggcggc ggcgggcgtc ttggtggcgc ctacggaggc 360
ggtggctccg agtacgggca cgagggccga ccgtaccacg gcggcggcgg atcccagtac 420
ggtcacgaga cacg 434

<210> 53477

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E1

 <400> 53477

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 catcgacccg aacttccccg tggactacgc cttcttcgag ggggcctcgt cgccgattgt 180
 ggacgggtcc ttcacctaca gcaacatgtt cgacgcgaac cacgacacgc tgatatgggc 240
 gctgaagaag aacgggttcg ggaacctgcc cgtgatcgtc ggcgagatcg ggtggccgac 300
 ggacggcgac cggaacgcca acgcccagat ggcgcagcgc ttcaaccagg gttcatga 359

<210> 53478
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-E10

 <400> 53478

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 ccatctgcct gtttggcttg gatttggcgc ggcgatcaag cacatcatgc agaaggacat 180
 caggaacatc catatactga aagagatgta caatgagtgg ccattcttca gggtcaccct 240
 tgatctgctc gagatggttt tcgccaaggg tgatccagga atcgagctg tgtatgacaa 300
 attgcttggtg gctgatgatt tgcaatcctt cggcgagcaa ctgangaaga actatgagga 360
 gacaaagg 368

<210> 53479
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E11

 <400> 53479

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 ggctctcag cactttccta tgctttactg gaatgggaga tgactttgca atacatagct 180
 gttttaagcg ttgggctgac tatctacttg cgattctcta catatgagga ctccgaggat 240
 ttggagaaag acctaaagct gttgctgtct ccagtaagag taggcgcaga cgccttgtca 300
 tgggcagcta agaagataga gccaaacaag gtgggcctgc caacgtctcc ttccacgacg 360
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 gacgagtcgt cggtcc 436

<210> 53480
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-038-Q1-K1-C5
 <400> 53480

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 gctctggcga acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagt 180
 ctcaagtcaac tagccatggg gaaccctgcc gtctacctac aactactttc atctagccc 240
 ctgcggtgg gcaatgcacc tacgtacct caacaacagt tgctgcaaca aattgtacca 300
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 aacca 365

<210> 53481
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-038-Q1-K1-B1
 <400> 53481

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aaacttagga atcattgcac aataattaga accgcggaac tgtctgctgg tcaagaccat 180
ctaactgatt tggagaggca aaaggatgat attatgaggc cctattcccc tgccgctctg 240
ctcaacatgc tacatacatc aatggcaaaa gcggatgagg agccccgagga gctgcaccag 300
atgttcctgg agaatgacat agtccttaca acctttgtgc agaagtacaa gaagcttctt 360
acggattacc acaagcaggc attgcttcat gtcgc 395

<210> 53482
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-B10

<400> 53482
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ccccgccggc gccgctcttc gagccccggg agctcaagtc ctggtccttc taccgcgccg 120
gcatcgccga gttegtcgcc accttctctt tctctacat ctccatcctc accgtcatgg 180
gcgtctccaa gtccacctcc aagtgcgcca ccgtcggcat ccagggcacg gcttggctct 240
tcggcgggcat gatcttcgcc ctggtctact gcaccgncgg catctccggc gggcacatca 300
accgcggcgt gaccttcggg ctgttctctg cgaggaagtt gtccctcacc agggcggtgt 360
tttacatcat catgcagtgc ctgggcgcca tctgcggcgc gggcgtcgtc aaggggttcc 420
agcangggct gtacat 436

<210> 53483
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B11

<400> 53483
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aattcaccag gctagagcta gctagctggc tctaccgccg ttccccgatc gagcgtccgt 120
catggagatt gatgagatgg agagcgggtg cgtcaatgga agcggcgggc gcgggtcgtt 180

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B5

 <400> 53486

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 acttctgctc ttcagatgct tcccctggaa agaccaacaa cacctcctgt tcttatttca 120
 gttgcacagt tccgcccaga aaaggcccat ggccttcagc tggaggcatt tgcacttgct 180
 cttcaaaagc tagaccctga ctttcctaag ccaaagattc aatttgtcgg tagttgccgg 240
 aataaagagg atctggacag actacaaaag cttaaggaca ggtccactga actacacata 300
 gatgagcttg tggagttcca caaggatatt tcttacaggg acctggtaca atttcttggg 360
 ggtgccatt 369

<210> 53487
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B6

 <400> 53487

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 tttgaccgac aaagaatggc gtaggagaaa aatgcaaag aggatatcag aggaagaagg 120
 aagacttaag aaggatgagg aggaaacaaa agagatgtgg aagaggaaga gagagcatga 180
 agagaagtgg gaggagacca gagacaagcg ggtctccagc tggagggatt tcatgaagac 240
 aggaaagaag ggacggaaaag gtgaaatcaa gccccaaaa ctgaagactg aagatccgaa 300
 caaatcttat gtgcaaaggc cagtaaagcg aaactgagtg gaatgtcagc aatcaaagaa 360
 c 361

<210> 53488
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B7

 <400> 53488

<210> 53493
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-C11

<400> 53493

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ctggacacag aagtatgcca tgggctagaa gcaaggctaa aagctggcca aactgggtgaa 120
tgtgccggac cccaaatcgt taccacctaataaaccagtc aagtcgcaag tatgaatgga 180
cttttgagga ccattgtgcc ctgttgaact catgtattac cttgtgaagt ccgttgtgtc 240
tggtttctac ctgaccgttt cgttatctga tgctgtttct ntaatatctg atgctgcttc 300
attaaccata cttctatatg gtttgtggtg ttgctgtttg ttaaatctgt cagctgcttg 360
acgtttcact gaaagaaaga cgttccagtg agcgc 395

<210> 53494
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-C12

<400> 53494

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ccatagctct agcgtgtgga agtaaagctg gctttgcgtg tatgacatgt ctaatgccaa 120
cccaatcgtc agctttggaa tgaagcgtgc cattgatgat atactgaaat gagttgatca 180
gtgcaattct ttgacatcta actatttatt attatatgag atgggaggaa ctgatggaga 240
ataaatgctg ctgtagatnt gtagaagttc aaaaaaatt ggtactcct tgacaagttt 300
gtagcccaag ggtacatca tacagtttga gatgaggaca ctatgtatac tgtttgagac 360
gaggacatta tggatactac tctagaaggc taccgaaacc aaatttgcac ctgtttatt 419

<210> 53495
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C2

<400> 53495

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gtataacacg tgaacacatt ggtgctgatg taaagtcgag caggaaggaa caatacagag 120
atcattcagg ctagtggtgc tctgatcaag atatcagata ggggtgacta tatatctggg 180
acatctgaca ggaaagtgc tattactgga acacccggag ctatccggac cgtggagtcc 240
atgatcatgc agaggggtgc agccagataa cagaggtgat gagccccttc tgaaggaagg 300
gcgtaagcca ttgctgtgtc cgagcacaga atcgtgtttg atgcaagtta ggaggatg 358

<210> 53496

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C3

<400> 53496

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tatagccgat gaacacattg gtgctgttgt aggtcgagca ggaaggaaca taacagagat 120
cattcaggct agtggtgctc ggatcaagat atcagatagg ggtgactata tatctgggac 180
atctgacagg aaagtgcga ttactggaac acccgaagct atccggaccg cggagtccat 240
gatcatgcag aggggtgtcag ccagttcaga gaggtgatga gccccttctg aaggaagggc 300
gtaggccatt gctgtgtccg agcacagcag cgtgtttgat gcaagttagg aggatgtggg 360
aact 364

<210> 53497

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C4

<400> 53497

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tgcgcggcca cgggatcctg acgcgtagcg ggagccagtt cggctcggac ccgaggtacg 180
 tccgggtcag catgctcgac cgggacgatg cctacgacat cttcgtcaag cgcctctcct 240
 ccctgcactg aacaggcccg gtcggctaca cgcatgcatg gcatggagat gggaggagga 300
 tcgatgccat gccgcccggc cggcgtcggc attgccggtc cgtggaacag tgtgag 356

<210> 53498
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A9

<400> 53498

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 gctatggaac ttgagaaaaa agaacagaag gagagggagc tacgtgcca aataattgct 240
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 atggtgaaca acagagagag ggagaagatt tttgtagcca gccaggagaa attccacgcc 360
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 atc 423

<210> 53499
 <211> 395
 <212> DNA
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<223> Clone ID: LIB3079-037-Q1-K1-H11

<400> 53499

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gcaatgtgga gtcagcttca cttgaaccca agtctgggag taaatttgta gctggaggag 360
aagaatttgg ggttcatgta ttcgatttct tcaact 395

<210> 53500
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H12

<400> 53500

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ctacaacccg gactaccaat acgagtacat gctctggacc tagagcctct acatccgcaa 180
ctgctatcgc tgcgtccgca tggtaacaa catctacctt aactactacg ccttacacgg 240
tgacgaggcc cactg 255

<210> 53501
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-H2

<400> 53501

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cggggaagac catcaccctc gaggtggaga gcagcgacac cgtcgacaac gtcaaagcca 180
aatccagga caaggaaggg attccccag atcaacagcg actgatattc gctggcaagc 240
agctggagga tggacgcacg ctggctgact acaacatcca aaaggagtca actcttcatt 300
tggtcctcag gcttangggg ggaaccatga tcaaggtcaa aactctcact gggaaagaga 360
tcgagatcga cattgaaccc actgactcga ttgacaggat c 401

<210> 53502
<211> 401
<212> DNA

<400> 53504

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agaagaagag caggaggatt gagatatccc tgtactgtct tgccagagct atcgagagtt 120

ttttcacatg gatgaccgat gcaggactct gccctccaat acttcagata aagcgagctg 180

atgtggttgt gttcagcata gctacctcta tcattatgca ctgctatgcg caggaaagag 240

aagtcttccg gtccaagtac ctgaatgtgc tggactgggt atttggtgtg ccgncaccac 300

ccgacagtga ggataagaac tgctatctac cagatgaagc caggaaatgc cagtgcata 360

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<210> 53505

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H8

<400> 53505

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tattatatat aatcacctac ctacacttca ctgtactcaa ctttactaca ccctaaattg 180

taaaaaccct tgagttacat accttattct ctttatatta tatc 224

<210> 53506

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A1

<400> 53506

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cactaatact agacgcattc tcagggtccgt atgttcaca gggcacaaca acacaatggg 180

agcctgcacc ttcctaaagg cactgcagct ggaaagcgct ccgggggtccc cagttacccg 240

atgcgaaggt aggtgctgct tgaccgcgcg ctgcggaagt tccctggccg cacgcgggcg 300

tcccatgccca agaaagcgtc agc

323

<210> 53507
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A10

<400> 53507

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gccgaaggct ccatatttca caatgcaact ttgctgtaat gtttaatttac tgcgccaaat 180
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ttattatact ttaact 256

<210> 53508
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A12

<400> 53508

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cgcgcgggaa gcgggaaata tgtcattgac tgcgcgggaa atgagttagc gagcgcgca 180
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caagctgccc tacatgatca tatgaaatat ttaaacaaga agaaagcggc tgaagagatg 360
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<210> 53509
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A2

<400> 53509

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at ttggctct caagcaactc agatttgatt cacaatgagc cgattcctag acatcagtgg 180
agatgtataa gtgcattctt acactctgat tgatggacac cctagtggtc caattttgga 240
acggattatc ttatatgggt ttgaccagat tctctaattc agcttttcag attgacaaga 300
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<210> 53510

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A3

<400> 53510

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cgcattctta ggtccgctcag tctcacaagc cacatcaaca cattggtagc ctgcacctac 120
cacgaggcca cggaggtggc cgaggcgccc gtgtcgacgg acaccgacgc tacgaccggt 180
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<210> 53511

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A4

<400> 53511

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ccgggtgtcg ccgatcgta gggccgagcg cgacgcgttc accgccaagg actgggagat 120
cctcaccgcy ctctggagga agcagcgca gagcgccag gtggaccggy ccaaagcgac 180
gcagcagggg acctacgagt cgctgtgccg cgacgcgacg atcctgttcg gcacgtggga 240
gttcgacccc acggagatcg agaaccggt ccccgacggg gagggcggyg tcagcatctg 300

gcaggggcg caggacaaga tcgtccaggt ggagatccag cggtagctgg cgca 354

<210> 53512
<211> 221
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-A5

<400> 53512

cgcccctgga ctgcactgca ctgctcgagg ctccagctaa agccgcctgt atctgtagca 60

acagcgacag agcttactct ggattccttc gcgccatcaa cgggctgcag cattaagggc 120

acacactaat actagacgca ttctcaggtc cgaatgttcc ataggccaca aaaaaacaat 180

tggagcgtgc acctntttac aagccacgga cggggaaaac c 221

<210> 53513
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A7

<400> 53513

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gaaaatttag aaaaggagca gcggattttg gaacttagga atcagtgcac aataattaga 120

accacggaac tggctgctgc tcaagaccgc ctaactgatt tggagaggca aaaggatgat 180

attatgaggt cctattcccc tgccgcactg ctcaacaagc tccaaacatc aatggcaaag 240

ttggatgagg agtccgagga gctgcaccag aagttcctgg agaaggacat cgaccttcca 300

acctttgtgc agaagtacaa gaagctccgc acggcttacc acaagcaggc gttgctccat 360

ctcgccggcc ag 372

<210> 53514
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A8

<400> 53514

gtactcacia tcgatatcca aggaaaatac aaagtgtggc ttttatttac atcctgctga 60

agttcgctg cgccaaacat aactcaaggg aagcttagtg ctccacggat attacgaatt 120

cacaagggtg ctaactatgt ggttgagaaa ctggttcttg acaaaccatt ggatggaggc 180

tctgatagta cgtttggtat gggattgagt tctgctcaat cacagctctc acagctagat 240

agttcttcgc ggcttggaact aaagccatgg caaaaaacaa agccatgtat tgaggtattg 300

tgcaataacc aggttctatc accagatatg agtttggtta cagtgcgaac ata 353

<210> 53515
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G9

<400> 53515

gtgatctatc acgctcgcga gcgagagaga ctcacatcta tctgtcaagc tactccccag 60

tgtaagcaca ctggtacggg aacaccggca tacttgcata ttgctgcagc acacgatgga 120

aagtatccct catgatcata ctcacctctg acctcaaact cccttacaaa gt 172

<210> 53516
 <211> 298
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-F4

<400> 53516

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gcctacgagg aggtcgccgc aaagggcggc agtgatgacg gtgacgagga ggaggaatac 120

tgatctgctt gcatgaatct gtttggtgtg cgagccaggt tgtggtgttg aaaaaccttt 180

gtttgtgtcc tggccccctt gggtaatgtt tgggtgtttc cttccatcat cacttgctga 240

actgctctag tatttgcat tgaattgaa gtctgtcgct ttaagcactc ttggttct 298

<210> 53517
 <211> 395

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F5

 <400> 53517

 gaaagaggct tgttatgttc ctcacccttt tacatttccg cctcgatgtt ctctaggggg 60
 gctatttggga atgcgacttc caatagaaga tatattatca atgcaaagag aaatgattta 120
 ataaaaacaa aaaaaaaaaa aaaataaaaa aacaaaaaaaa aaaaaaaaaa aaaaaataa 180
 aaaagaaaaa caaaaaaac tacaaaaata aaaaaaaaaa aaaaagggcc gcccgcttta 240
 caggacccaa ttttatgtcc ccgcacatgc aaagtaataa ctcttctata gggctaccta 300
 aactaaatta actgccctcg ttttaacaac tccgtgattg gaaaaacctt ggctgtaccc 360
 aatttaatcc ccttgcaaaa aatccctttt ttccc 395

<210> 53518
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F7

 <400> 53518

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 gctttttgtt tgataaatga gatatatagc tttgaaagta ttgataaatt atcttcatct 120
 agtatccttg atgcgaaata taattctctg atttgtttag taactgagta atccatacga 180
 gtgttctgca gatattctac tttgttggat ttggattgtt ttgtctggaa tcgttgctca 240
 gcatctgggt catccagcaa gtgtacatgt acttccgtgg aagtggaaag gctgcagaga 300
 tgaagcgtga tgcgacaagg ggtgcaatga gagccgcatt ttaagtgggt attttgtgat 360
 gatag 365

<210> 53519
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F8

 <400> 53519

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 gcgtgcgcct gctggtgttg aactggagg tggccgtggc gtgcatgtcc cggccgtgg 120
 accagctcgt cctcctcttc gatgcaagct tttccgacg ggcgtcggct ttcctcaacc 180
 tgctcatggg cacgctcaag atcgtcgccg actactaccc cggccgcctc caccgcgcct 240
 tcgtcatcga cgcgccctcc ctcttctccg tcctctggaa gggagtgagg ccgttcgtgg 300
 agctggcgcc ggcgacggcg gtggtgtgct ccctggactt cgaagactca ct 352

<210> 53520
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F9

<400> 53520

gatacttccc tgctattcct atatcctatg cttcatcact ccacttaaaa taccactcta 60
 gaggaagctc atcaatgtcg gcttcattgg atcataaaac atcctttatc acttggatgc 120
 atgctgccat gaccccgatg gaccataact ctgcatcaat atacttttgc tacattgaac 180
 acaatcacac tatgaactaa tacatccatg caccactctg atatgatacc ttaacaagac 240
 tcaagcccac tgactaacat acttatcgac ctcatcgaga accgccat 288

<210> 53521
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G1

<400> 53521

agacgctgag ccgtgacgtg taccgtcttg gacatcgttt tgactttttc agaatgttgt 60
 gctgggacta tactactatt ggtttttact tcagcacaat gataacagtt tggaccgttt 120
 atgtattcct ctacgggcgc ctgtatcttg tcctaagtgg ccttgatgaa gcattagcca 180
 ctggaaagag gtttatacac aacgagcctc tccaggttgc tctagcttca cagtcttttg 240
 tgcagcttgg gttcttgatg gcgctgccta tgatgatgga aattgggtcta gagagagagt 300
 acagcatata tgttttcttc tttttctctt gttccctttt gctcgatgaa accagtccac 360

gagtataggg gttcttttagc cttttggcaa tccagtcttt tacgc

405

<210> 53522
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G10

<400> 53522

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ggtgagctgt acgaaaaggg taagccaaag ggagtgacaa tgacagtgct gttggcgaag 120
gctgcagcca tggctcttgc acagcaccct gttgtcaata gtacctgcag ggatggaaag 180
agcttcacat acaacagtaa tatcaacatt gcagtggctg tggcaattga tgggtggcctt 240
attacacctg tccttcagga tgcagacaag ctggatattt atttgctctc gcaaaattgg 300
aaggacctag tcaagaaagc acgtgcaaaa cagctccaac caaatgatta caactcttgg 360
acttttacac 370

<210> 53523
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G11

<400> 53523

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ttctacagcc accgctgtcg tggccgtcct agactcctag atccgtcagc ttaacgagct 120
ccattccttc taggccagcc atcccgggtg ctcagcagcg gcagctgcgg cgtcgagctc 180
ttgctttctg tgggaggacg catggcgatg tctgcggctc gtgggctctt ggtcctcttc 240
ttctctgccg ccgtagtggc tgagctcgcc tctgccgca acggtccttt cctgtccgat 300
agcgtcttcc agtcgagcgc cggatctaca gggaggagct tgctgcatgc caataataat 360
tgccctgcc aactttaatt tcaaaacttc acaatcatca 400

<210> 53524
<211> 353

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-G12

 <400> 53524

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 ggggagctag aaagacactg atattgcgag agattcctga aggtgatgtg agatcgatac 120
 tttctgacag agaatcattg ggcgcgtgtg atgtaccagt atttgtttac gatagctgtg 180
 atgaatattc atggcaaaga gctagagact tgcttgtgca agtggctaca catggagaaa 240
 atactggcta cgaagttccg tgcttgatag ttgctgcgaa agatgatctt gaccaatctt 300
 cacaagctct acaagaatca actagagtga gccatgacat gggaattgga aca 353

<210> 53525
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-G2

 <400> 53525

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 atattgactt tttcagaatg ttgggctgca tcatactact attggcccct acttcagcac 120
 aatgataaca catatgaccg tttatgtata cctctacgga cgctgtatc ttgtcctaaa 180
 tggccttgat gaagcattag ccactgtaaa gaggtttata cacaacaagc ctctccacga 240
 tgatctagct ccacagtctt ttgcgcacct tatatacttg atctcactat ctatgatgat 300
 gtaaattgga ctaaagacag acttcaacat atatgcttcc atatatctct cttgctccct 360
 ttacttctat gaaaccatta cacaacata actgtttcta taaccttt 408

<210> 53526
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-G3

 <400> 53526

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cgctcaaggtg gagacgacgg ttgagagcgg ggacccgcgg gacgtcatct gcgacgca 418

<210> 53529
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G7

<400> 53529

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ggggaacacc tgaggccctt gccttgagag gaaaggctgc agtagcacia gccaaactag 120
caaatcggct ctacaaaaag aaattctctg gcccaagggtg ggaggcgttg gccaaagaaag 180
gtgccaagaa acaaagggtt ttgtgggcat ccaccggtgt caagaacca gcttatcctg 240
acactctata tgtggacagt ctcataggac ctgacacggt caacacgatg cccgaccaag 300
ctttgcaagc attcatagac cacggcaccg tttcaaggac agttgatgag aacgtgtctt 360
aggcagaagg tgtatacagt gccttagaga agcttggcat cgactgggag aagctggaaa 420
gcaacttgag c 431

<210> 53530
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G8

<400> 53530

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actgctagag aggaacaagc tgagatctcc agcatgggga ggggaaggat tgagatcaag 120
aggatcgaga acaacacgag ccggcaggtc accttctgca agcgccgcaa tgggctcctc 180
aagaaggcgt acgagctctc cgtcctctgc gacgccgagg tggcgctcgt cgtcttctcc 240
agccgcggac gcctgtacga gtacgccaac aacagtgtga aggctacgat cgagaggtac 300
aagaaggcac acgccgttgg ctctttctct ggccccccac tcttagagca caatgcccag 360
catttctacc agcacgaaat cgcaaaactg cgcaaccaga tccaaatgct gcaaaacact 420
aac 423

<210> 53531
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F3

 <400> 53531

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 tcgtggagaa gctgtttggg atcgaccctg atggtaccgg ggtcgcctctg gctgacatga 180
 tgaggaagaa gatctcaatg cctgcccacc tgatgtttga cgggcaggac gacaagctgt 240
 tcgagcactt ctccatggtc ggcgagaggc ttggcgttta cactgccagg gactacgccg 300
 acatcctcga gttcctcgtc gacaggtgga aggtggtgaa cctgactggt ctgtcgggtg 360
 aagggaacaa ggcgc 375

<210> 53532
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-D7

 <400> 53532

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 cccctcgggc gagctctcca gcgcccgtt cagcgagaag gagctgatca gcgccatcga 180
 ccgcgaggcc gtgttcacgt acgcggagga cgcgccagc ggcagcctgc cgctgatgca 240
 gaagctgcgc gccgtgctgg tggaccacgc cctcagcagc ggcgacgcg agcgggagcc 300
 ctccgtgttc tccaagatca ccaggttcga ggaggagctc cgcgcggtgc tgccccagga 360
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 ggacagccgg tcg 433

<210> 53533
 <211> 331

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-E1

 <400> 53533

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 cgtgaatcct tttattacat gatttatgtt ggtcaaattt taactggaga ctactgtact 180
 tttatcagcc atatgtagta tactagtatg ccatgtttta taggatcata gcaacttcag 240
 accctggagg gctccttgta tttgttccat ttaagagctt tcttgtttgc aatggccata 300
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<210> 53534
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-E11

 <400> 53534

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 ttagacaaaa cggcttgctt gctgcagctg cctagtgcc caaagatttc tctgctat 180
 atgcttaaac agggaccatt ttcattccgg caattatttg atgaatatag acatttcacc 240
 cttgtttggt taccctcttc tagattatta aatcagttag aagacaaaca aacaacatat 300
 attattaatg catgtgtcta ctatatgtgt ctagattcat cggctgctat ttgaatatt 359

<210> 53535
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-E12

 <400> 53535

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 cggctggcgt ctcatatctg ggcgtcggcc acgcacctcg cacaggctat taccggggat 120

ggagctggtg gacctgccaa tagcggcgag actgtgtcat ctgagtggcc tccgcacccc 180
 gaatcggata cagtcatgtc ggaagcacgc gaagggggtg gcttttttga ttgagccaga 240
 ggttccaatt atcaggcgat aaggtagctg ctgttagctg tcagccaaca tgagtaaaag 300
 gaggctacca cctaccatac gctatctgtc ttcattcgga cgaggtttct cgcaaggtga 360
 tcgcttgctg ttacagctga aac 383

<210> 53536
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E2

<400> 53536

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 ggagtcggat cgaatgccct cgccgatgcc gccgatctgg cagacgtctc cttctcgggtg 180
 gccgacgcgg ccgaggcgcc cgcgcccagt cccgtttccg ccaccgtcgc ggcgtcgtcg 240
 ccctttgccg cggttctcgt cgctccgcc gccgccttcc ttttggccgc cgtccgcaat 300
 tgagccgatg gggcctcaag cctgcaggct acctagcaga acttcccccg ccgcctcggc 360
 cgccg 365

<210> 53537
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E3

<400> 53537

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 gacgtgcctc gtacactcat tacttttatg aagcaactgt tgggtgctggc ctcccaatca 120
 ttagtacctt gcgaggctct ctggagacgg gtgacaagat actgcgtatt gagggcattt 180
 tcagtggaac tttgagttat atatttaata atttcgaagg aacaagggca ttcagtgatg 240
 tcgttgctga agcaaaagag gcgggatata ctgaacctga cccaagagat gatctatctg 300

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327

<210> 53538
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-E4

<400> 53538

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cagatcccg ccttgcgatg gagtccgtgg tgaacccgaa ggcatacccg ctggctgatg 180
cgcagctgac gatgggtatc ctcgatatca tccagcaggc cgccaactac aaacagctta 240
agaagggagc gaatgaagcg acgaagaccc tgaatagggg catatcggag tttgtagtga 300
tggcggcgga cacagagcct ctcgagatcc tgctccacct ncccttggtg gctgaggata 360
agaacgtgcc atatgtgttt gttccatcga agcaagctct 400

<210> 53539
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E5

<400> 53539

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tctccggagc gcacgtcaga tcaggtgcgc cgcgcccccc tcgcctaagc tgcgacgacc 120
atccatcgaa caggaaggat gacgggctcc atggatctcc cggccaaggc cgggttcagc 180
ttcgacctgt gccgccggaa caacatgctg gagaagaacg ggctcaaggc cccgggattc 240
aggaagaccg ggacaacat cgtcggcctc gtctttcagg atgggggttg tcttggggca 300
gacacaaggc caactgaggg ccccatagtt gctgataaga actgtgagaa aatccacttt 360
atggcaccga atatatactg ctgtggagca ggaactgctg cggacacgga ggccggtaca 420
gatatggtga gcttccagc 439

<210> 53540
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-E7

 <400> 53540

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 aatcaataga agccgataat tctttggact atgcggcaaa tttctcacac atgcttggtt 180
 ttgacgaccc aaaaatgctg gagctgatgc ggctctatgt aacaattcac actgatcatg 240
 aaggcgggaa tgtcagtgtc catactggtc atctggttgg gagtgtcttg tcagatcctt 300
 atctttcttt cgcagcgggt ctaaattggc tagctgggcc actgcatggc cttgcaaadc 360
 aagaagtgtc tttatggatc aaatcttgaa ttgaagaaac tgggaatggt gttaccacag 420
 atcaacttaa agacta 436

<210> 53541
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F10

 <400> 53541

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 aggtgagtct caaaaaaagc gcgtctcatg ccaattaaag aatccattga tcacaaagaa 120
 gctttgttcc aatcccccta attaccatc ctcttcatca ataactatgg cttcttctgc 180
 aactctgcta ccataaacat gtgctccaaa tgccacaatg atattattac taatcattat 240
 catgccaaac ttgctttcta ctctatcgac 270

<210> 53542
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F11

<400> 53542

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gcactcttatg ttcagtattt ccttcctgtg ttcattgaagc atgccttttg cattgatttg 120
atgctgcagt gatatttggtg ctgccaaatg caatgttgct tatatttgct agattgaaca 180
gaatcacact gtagctaata cagtatgcaa agctctcatg tcatagatta agaaaactca 240
aaaccagtga ttaacaaaat ggtagacctg ggagagtgcc cccatattct ttatccactt 300
ctacctagtt attctagagc ctaaggctat tcggactcat accactctta atttggactc 360
taaaagaaat attctattct tggcaacaaa attctttacc ctatactaca attcttcgca 420
gtca 424

<210> 53543

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F12

<400> 53543

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cgtgatgaag ctcaggacag agctcccgag ttgaagatga actccatctg cgaggaatcg 120
aagctccagc atcagaaggt cccaaatgac ctgttgagc atgccaaagc tgatgctcaa 180
acagctctcg aggagataga tcctgactaa gaaacatgat gatatgcca aacttcatgt 240
tttggcgctg atgaaatctc tgatccctct ggggtgacag actgggatatg gcaaacacgt 300
ctgattatat attgatgaca tgtaaaactc aattgactga actacggatc tgaattgatt 360
gatgtcatag ctgctgctat tgacattcaa aaaatttacc ctatactaca atacttcgaa 420
atcatatta 429

<210> 53544

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-F2

<400> 53544

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gaaggcaatc gagaacgcga tccccggcgg cgcggtgctg gcgggagctg tgggtgcgggc 120
tgacgtacct ggtgatccag acggccgggt tcatgcggct caccttctgg gagctgtcgt 180
gggacgtgat ggagcccatc tgcttctacg tcacgtccat gtacttcatg gccggctacg 240
ccttcttctc cgcaccaag aaggagccgt cgttcgaagg cttcttcgag agccggttcg 300
cggccaagca gaagcgcgtg atgcgcgccc ggggcttcga cctccgcagg tacgaggagc 360
tccggagagc ctgcngcgt 379

<210> 53545
<211> 414
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-D6
<400> 53545

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gctgacgggc tggaatccgc tggcgcccgt cctccagacc gtcgccgctt tctcccgcc 120
catcctcatc gccccgacg ccgggctcga cgaccacgc ctccgcccc ttctagcgct 180
ctccctctcc ccgccttcgc cggcaccacc gcaaccggag gtccggaagg agaagaagga 240
tgccaaggag gcgccactga cgaaggagga ggtcggccgg gccacgtgga tgctgcttca 300
caccatcgca gcgcagttcc ctgacgaacc tacgaggcaa caaagacggg atgcaaagga 360
gttgatgcat ataatctcga gactatatcc ttgcanagaa tgtgctgac actt 414

<210> 53546
<211> 221
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-037-Q1-K1-C11
<400> 53546

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tgggcgctct tcacatccat ggctacgaac tcttccatcc taatcgctca ctacactata 120

actatacaca attccaatcc catgctccca accttcatcg ccacctacac ctaaaccctt 180
ctcataacac acctatcact gcattcaaag aatacatatt t 221

<210> 53547
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-C12

<400> 53547

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taggtggtga cctcccttcg gttaaagatc cgcgacaaag tttctaagtt gagtttgatc 120
tttgaagtgc aaaattgttt tgatcatacc ttgangacat cctaaaagca ggtttgggat 180
tcatataacg agtttttaat gagacaaaca agttctaggg tcaaaggcaa tatgaatgac 240
atgtagatt caagtattca acaggatctc taggagtaga tcagtggggg aaactgtgtt 300
ctgtanggta atttcaggtt cttaactaat atatcaaac agtattagat tgttaccgtc 360
ag 362

<210> 53548
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-C2

<400> 53548

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gcagcgacga cacggactcg atggcgccgg gcacgcccgc gacgcgaagg gcgttgcgct 120
tcttgctggc gagcttgac acgacgagcg ccgcggacgc ccgcgcgccg cgctcggcgg 180
cgcccttcca gctgagcatg tccacgaggc gctccacgac ggcgggcgac gtgccgacgc 240
ggcgacgcgc gccgtccccg agccgcgggc tcgcggccac gttgacgagg atgccacgc 300
cgatgcgctg ctgcgtcgtg gacccgncga cgatgagc 338

<210> 53549

<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C3

<400> 53549

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aaccataaag tcattctctcc gttctaagct acactccttt ggagttaagg aagagcttac 120
tgtttctcaa atcaaggctg aaatggagaa gaccctgcgg tggcttgtcc ctattgcaag 180
taacaccacc aaggctcacc atggtttcgg ttgggttgga gagtgggcaa atactgggtc 240
agatgtgaac tgcaagccaa atgggcagat agacctgatc cgaattgaga cactgtacca 300
cgctgacaag gagaagactg aagcatatat cctcgagctt gttatttggc ttcattcatc 360
tatcagccta tccaaaactg caaatggtga aaggtctcca atcaagtctc ctgttcggtc 420
tcctacacaa agaggggcct caatcacat 449

<210> 53550
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C5

<400> 53550

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gtcgtcggtt cgtccaggcc agggcccttc gctgcgacgt ccggtcgggt cctggcgact 120
gtcacctgta aaggcgggca cgctcgatg cccacgaat ccatcgacc tggtgtaact 180
gcagccacta ctgtcgtcag cctccataat atcatcttcc gagaaatcga tcccctgcag 240
gtcgcgggtt tgctcgtcac tcttctgaag ggaggagaag cgtacaatgt catcccagat 300
aatgtggcct ttaacggcac catgatgcgc atgactgatg aaggtctatc ggatcttaag 360
aacaggatca aagatgatcg tccaatgaca tgc 393

<210> 53551
<211> 357
<212> DNA
<213> Zea mays

ggagcgactg cagaaaattg acaatgataa ctacccagag actctatacc aaatgtttat 120
 tgtcaatgct ggtccggggt tccggctact atggaacact gtgaagtcct ttcttgatcc 180
 caaaactacc gccaaagatac atgttcttgg gaacaaatac caaagtaagc tgcttgaaat 240
 aattgacgcc agtgaattgc cggaattcct tgggtggcact tgtacctgtc ctgaata 297

<210> 53554
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D1

<400> 53554

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 agtcatgcca ttgggtacca tgaacccatg catgcacgta ctgcatgatg caacaggggc 180
 tagccagcta gatggcgtgt ccgtacctga tgctgcagca actgttggcc ttaccgcttc 240
 agacgatgcc agtgatgatg ccacagatga tgacgcctaa catgatgtca ccattgatga 300
 tgccgagcat gatgtcacca atggtcttgc cgagcatgat gtctcaaatg atgatgccac 360
 aatgtcactg cgacgccgtc tcgcagatta tgctgcaaca gca 403

<210> 53555
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D11

<400> 53555

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 gggatcgacc acgaggcgcg cgaccccaag ctccccttcg agccggagaa gtcctcaac 120
 ctgcactcct ccgccccgcg tgctgcccgc gccgccgccc ctgccgccgc cgctgccgag 180
 gccaccacct ccaagcccaa gcccggcgtc cgcggcagcc tcaagaagta agcttgctgg 240
 gcttggttgg ctgcgccgcg tgcatggggc gcaattccct tcggtttcaa tcccatccgg 300
 cgacccgatc tataatcaat caaacggcg ccctacggcc tggcagctgc cgcagtcggc 360

ctgcggtgta ctgttagtct gctgctgatt tcccgtgtta tactggtggg acatgtgtcc 420
tgtgatagat gtgtcaacta tatatcaatc tc 452

<210> 53556
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-D2

<400> 53556

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gctcggactc ccacaccaac caggcgctcc ttcgacccat gtcgttcgcg gccaaaggacg 120
aggtgttctg cctgttccag ggggtgctgg acaacctgag tcgtctgagc cagcagcact 180
ggctgtcaag caagggcgcc aacgaggtgc tcctcgatcat cgaggcctac aagacgctgc 240
gcgaccgcgc gccctaccgc gtcagcttca tgctcgccca gtcaccggc tactacgcct 300
tcgtactctt cgacaagtcc accaactgcc tgctagtcgc atccgacccc gagggcangg 360
tgccgctctt ctgcgggatc acc 383

<210> 53557
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D3

<400> 53557

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gcgcgcggtg aacagtggcg ctggcggtt tgacggcgac atgtcacgct cacggggcta 120
cggcttcggc agcgggtgctg ctggtgctgg tgctggcgct gcccgacta ccaaccgccc 180
cggttggaag tccggagact ggatctgcac cagatccgga tgcaacgagc acaacttcgc 240
cagcaggatg gagtgttca ggtgcaacgc accgcgggac tctggtagcg ctgccatgac 300
ctacgaaaac tacttgact gaggtgtagg atcgagcaag ttaaaaagtc tgcagcgccg 360
aagaaaggcg acgacagagg agtcctcatc acgtcgtaac gtaagagaga gagagagtag 420
tggatttgca acaaaaaaaaa aaaaaga 447

<210> 53558
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D4

<400> 53558

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ggccgaccac ggacggagcc tgaacacccat gattggcagg gcagcccaca tcgagttcct 120
tgagaccgac atctacgcca agttcatcat gtggctcttc cctgacctgt tccgatgaca 180
gacaacgccg ctggtctctg taatgtctct gtaatactgc tgcataccaa acctacaaac 240
cgatagcgca cactactgag tactgaccag gcaaggaaaa gtaagcttgc ataaaggctc 300
ccccagaatc caacaccgtc acaggcagag tagcgtgta aagatcctag aagcaacggt 360
ttttccagct tgctagatct gattctgtat aaatagttga ttctttcgtc attccattca 420
tagtgctgta gatgtgcacc tttgctggga atttataatc 460

<210> 53559
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D5

<400> 53559

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gtgacgccgc tcgttcgcgc agttttggtc ttctggccag cagggcaggg ggggaacccg 120
cgggagcgag gcgcgcgagc gagcgagcgg agggaggagg aggatgatgc acgccaagtc 180
ggagtcggac gtgacgagcc tggcggcgtc gtcgccgccg cggtcgccga agcggggcgt 240
tgccgcggcc ggcaccggcg gcggcggcgg cggctactac gtgcagagcc cgtcgcggga 300
gtcgcacgac ggcggcgggc gcggttataa gtcgtcgtcg atgcaggcca cgccggtgta 360
caacaacagc cccagcgagt cgc 383

<210> 53560
<211> 285

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-C10

<400> 53560

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 ggtgagattg ttattgtctg cgaccggata tattttatac ttaacctcat ttacatcaat 120
 gattcggttt acacacaact tgtctactac acttatgctn cgcacatact tgactttcta 180
 tgacgcacga tcatgtcatt tccaactaag atcacataat tgctcttttt gacagtgatt 240
 atcttaacga tatgagctca ctgcatgata tcattcttat caaag 285

<210> 53561
 <211> 472
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-A5

<400> 53561

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 ccgtctcgcc ccttcggctc tggcccacct ggtgaccgcc ccagggggccc tcctcgttat 180
 gaaggtgaca ggcctagggt tgggtgatagg gatgggtaca gaggaggtcc acgtggcgct 240
 ccaggtgact ttggtggtga taaggggtgt gctcctgcag atttccaacc atcttttagg 300
 ggtagcagac ctggcttttg cgcgggtggc ggcgggtgct tcggtgctgg tggatcttcc 360
 atggagtgat gtgtcaacat gagctagcat aacattcgct tttgaactat gagaacaatg 420
 agattttgct ttggtttacc gagctgttgc cgtgggttga catgggtttg tg 472

<210> 53562
 <211> 465
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-A6

<400> 53562

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agaggaagct gtatccaaat gtggatttct actctgggct aatttatagg gcaatgggat 180
tccctacaga attttttccct gtgctgtttg ctattcctcg catgggtggc tggctagcgc 240
attggaaaga gtcaactcgat gatcctgaca ctaagattat aaggccccaa caggatatca 300
ccggcttctg gcttaggcac tatacccccg tcagagaacg agtgctatca agccagagtg 360
aggaacttgg tcaggttgcc acctcaaacg caactaggcg ccgacgtgct ggttctgccc 420
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<210> 53563

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A8

<400> 53563

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gtgctggatt tagagggtcaa gtaaaactca ctggcttgtc gaatggggat atcgacctta 180
ctaattctct ttggacatat cagattgggt tgaaggtga gttttcaagg atctattctc 240
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tcacatgggt caagactatg tttgatgtc cagaaggtaa tggccctgtt accattgatc 360
ttgggagcat gggaaagggc caggcttggg tgaatggga tctcattggg cgctattggt 420
cac 423

<210> 53564

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-B1

<400> 53564

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ttatggttcc ttagggtttt gtgggggggg gatggctgcg gctgatgtgg agtaccgttg 120
 cttegtctgc tggettgcct gggccaccag caacgagtcg ctggagaatg ccttcgcctc 180
 ctacggcgag atcctcgact ccaaggtcat caccgaccgg gagacgggga ggtcccgcgg 240
 ctteggcttc gttaccttct cctccgagaa ctccatgctc gacgctatcg agaacatgaa 300
 ctgcaaggag ctcgacggtc gtaacatcac cg 332

<210> 53565
 <211> 267
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-B10

<400> 53565
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 gcgggagcgc caatgagtgg ctgcgatggc ctggtcggca cattagcgat ggtcctccgn 120
 gccgccgtag gaacggccgc aaccgatgct gccgaagccg accagatcgc taatctacct 180
 gaacagccgg cagctatact tttcatacac tccgactacg gcaacgcaga cccagcgtcc 240
 ggtcggtgcc ttttctactg gttaatc 267

<210> 53566
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B11

<400> 53566
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 catccagctg ggatacacta ctcggatctg acgctgtcaa cgtccacatg aacagtaact 180
 agtaaatgca catacttacc aaacctttca tacactga 218

<210> 53567
 <211> 410
 <212> DNA

<223> Clone ID: LIB3079-037-Q1-K1-B3

<400> 53569

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 aaaacaaccc ttttataact ccccttaatt taaataacat tccctttttt taacatcccc 120
 taatctgaaa aatcccaggc ttttcccaac ttactcactt tgaaacacac tccattttcc 180
 ccacttctct ccttttcaaa aatccccctt ttctaccttt ttaaaaatta ctatcaaccc 240
 aaaatgtaaa ctgttcccc ccttatcgcc ccctattaac cccaacggac ctcccttttt 300
 ccc 303

<210> 53570

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B4

<400> 53570

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 tgccaacgga tgcttcaaag cctcatctca aaagctcaac agtgtaacaa tgagaaactt 120
 ctggagaacc cataccttca gatgcgtggg atattgcagt tatcaaata cctaggagtt 180
 caatgataag atcgtgatga catttcaatg gataaagctc taagttagaa tcattacttc 240
 tggctgtgtt tattgcagag aacctgaaga tgttccgaac taagttttgc agatgctatg 300
 tgaatcatgt aaattattgc tttggccaga tgcattgaca gatccatgaa tttctttatt 360
 ctttggtaga ctagtcacag tccaagggag tcacagatta acaaggatat ctgatgatca 420

<210> 53571

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B6

<400> 53571

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 gcaagcctct cccatggcgc ttgcagcagg acacagagcc ccccatggcg cccttcctct 120

ccgtcgctgc cgtgccccgcc ccccaatcgc agccgcttgt ctactccagg cccgatgatg 300
 tgccgagaag cagcgcacct gccgagcagc gctcggaagc tgcggtgagc ccgccgcaat 360
 ttgtgccctc ctccgataac aggacaagga ttgatcactc agagtcaagc tctgcatctg 420
 ga 422

<210> 53574
 <211> 476
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-C1
 <400> 53574

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 gtccttcaag ataaccgttt tcggtggctt actcgtgttt ctctagatcc acgtacagag 180
 aaacacagatt caactgaaaa tgattctgca gcattgggtg atactgcagc ccaaacgact 240
 accatgcttc tgtatttccc atgcgggttg ataagaggtg ccttgaccaa cttaggaatt 300
 tcgtgttctg tctctgctga catgtcaaac cttccagcat gttcgtttgt ggtgcgcata 360
 aagacatgaa ctgtgaggaa tgatacaagt acagtacgaa gattcgacag tatctgcttg 420
 tggttcaagc cgggttgaac attgaagata gcagagtttg ggcattgcatt agatgt 476

<210> 53575
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-A4
 <400> 53575

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 aagaaagaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaata aaaaaaatg gccgcccttt ttaaagatcc caagtttatt tccccgcct 180
 ttcaattaaa aacttttttt ttggacaccc ctaatttaaa ttcattgacc gcttttttaa 240
 aacctttcac ctttaaaaac cttggctttc cccaattaaa tccctttcaa aaaaattccc 300

tttttccaag ttgccttaaa tccaaaaaagc ccctcacctt taacctttcc aaaaatttcc 360
 caaccttaaa tggcaaatgg aacccccccct ttaacccttc ttaaaaccc 409

<210> 53576
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G6

<400> 53576

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 gcgggcaggt ggtggaggtg ccggcggagc tgggtggcggc gggcaaccgg acgccgtcgg 120
 ccaagacgaa agcgttgcaa ctggtggggc gcttcctggc cggcttcgaa c 171

<210> 53577
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H10

<400> 53577

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 ggcacaagct gcccctcaac agcatctgga agccatggcg cgagtggagt gacgggtgac 180
 catgctaatac tgaaagcgtg cagctggctt aaggggtgctg tgaggggtgag gaggacagaa 240
 ctgacctaca ttggctcttt agacgatgac acctgacgtg tgtatgatta ttttggtgaa 300
 ttgtggagga aattagtctc acctgttggc actggagtga atggtggaaa ccaaccatgg 360
 cccttggctt taagatgggtt gttgttgggtg tagaatacat acacatcgct gccccgcttt 420
 tggtttggtt tggtttggtt taaggccctt gtgggg 456

<210> 53578
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H11

<400> 53578

caccatcggg acccatgata atgaagatgc tgcaggaacc ccatccttgc atgtagtcca 60

gaaagatgcc atggccctga aatccgccag ccctaattct caaaaggagc aggaaacatc 120

tttgaactct gaactacaaa gtcaggattg tcctctggaa catggtttta gtgcagattt 180

ggtgaactcc aggactgaaa agggagtcag gactacaagt tctgctagtg ctgttaaadc 240

tgattacaac accatgtttc atcctgctaa tggtagaatc aatgtccttg atcatttttag 300

ccgcagcaat ttgaatgatg gttcatcaat tgtcgcagaa agtaagcaaa acaatgaaga 360

tggaaagtcta aggggaagtga agaataaaaa gaagaaacga acgcaaggta ctggtagcgt 420

tgaaccaa at gatgttatag aatctccttc ctcagagata gc 462

<210> 53579

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H12

<400> 53579

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cattgaagga tttgttggct gctagttgga atgaacttcc agattctctc gtagcggaag 120

caaagaaagc agtatctaaa ggcaccgatg ataatgctgg tcaagaggct ttgaaaaatg 180

tatttgggtgc agctgaggca tgtgaagaat tcagtggaaac cttgggttacc ctaagaatgg 240

ctcttgatga tctgtgtggc ctgactggcg aaaatgtggg tcccttacct gggttatattg 300

aagatgctgt taaagctgca tataatcgct acatgacata tctggagtcc tttggccctg 360

aggaaaatta tctaagaaag aaagtggaga ctgagttggg cacaaaaatg atacaaccta 420

aatgagatg caatggcat 439

<210> 53580

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H4

<400> 53580

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 tttctgattc ctactccttg tcgctattca atcgctaaag gatctgtccc tgggtggagaa 180
 gaaccggcag attcaatgca atgttcttga ctgacgtcat ggattttgtt cttcaacctg 240
 gtagctctga agacgaattg aatagctgct agtttctgct aatcatctac agtcaagtgc 300

<210> 53581
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H5

<400> 53581

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 cgatcgggag acgcagaggt cccgcgggctt cggcttcgtc accttctcca cggaggaggc 180
 gatgcggaac gccatcgagg gcatgaacgg caaggagctg gacggccgca acatcacctg 240
 caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc ggtgggtacg gtggtggccg 300
 tggaggcggc ggctacggcg gtggcggcg ccgatgatggc ggtggcggct acggcgggtg 360
 cggcggttac ggtggcggcg gcggtacgg tgggtgtggc ggcggctacg gcggtggcaa 420
 ccgt 424

<210> 53582
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H6

<400> 53582

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 gcgcgtcggc ggcgtggtca ccaactgggc gtcgtgtcc atgaaccacg acacgcagtc 120
 gtgcatggac cccaacgtga tggaggccaa ggtggtggtc agctcctgcg gccacgacgg 180
 gcccttcggc gccaccggcg tcaagaggct ccaggacatc ggcacgatca gcgccgtgcc 240

cgggatgaag gcgctcgaca tg

262

<210> 53583

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H8

<400> 53583

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gtccgccggc agccacgacc accaccacca cctgcagccg caggggtcgg aggaggacac 120

cgacgtggag gccgcctccc acgtgagcca ggccgaggcc gagccgccgg tcagcagcca 180

gagccaggcg ctggtggcgg accaggaggg tgaggaggtc aggctggaac tcacgctcgg 240

cttcgagcca gtcgtcaggc agcagccgag gctgtcgtgc tgcgactcga gcggcttgag 300

cgccgcgtcg agcctcatcg gcctgcggtc gcagc 335

<210> 53584

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A1

<400> 53584

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agaacatatt tgtttgtgga ttcagtcaag gaggtgctct gacattagct agcgttttgc 120

tttatccgaa gaagttaggt ggaggagcag tgttcagtgg gtgggtgcct ttcagttcat 180

cagtcactga gaggatttca cctgaagcga ggaagacccc gtttctttgg tcacatggaa 240

tggctgacaa agtagtattg gttgaagctg ggcaggctgg tccaccgttt ttgcaaagcg 300

ctggtgttaa ctgtgagttc aaggcatatc cagatctggg tcattcgctt tccaagaag 360

agctacttta tcttgagtcg tggatcaaga gtcgtctaaa tgcctctcaa gagaaggacg 420

gttaactgat tccatcatgc ttaagtggca tttattta 458

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<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A12

<400> 53585

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tgggtctgac gaagattgcg ttcacggcag tgtgagtccg cgagctggcg cgcagcgacc 120

cgtgcaaaca agctccactg tggccttctg cgctcgaccg ctgtctcagt cggacacggc 180

actgctatca cacaacagcc tctcgccagt gtcgggcaag acagtgtctg ctgtcagggt 240

ctgacacctg gtcttga 257

<210> 53586

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G5

<400> 53586

catatcatatc aaatcatata acaattacat ctcaaaaaaa ctacaacact aacaataaca 60

aaaaaaacct ctaaaaataa ttatgaacta atcataaaaa acaaaataat atataaccaa 120

aaaatacaaa aataaagaaa atcccc 146

<210> 53587

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F12

<400> 53587

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gcaagaccaa tgtacagcaa cccacctgtt catggtgcac tggttgtttc tataatcctc 180

agtgatccag aattgaagag tttgtggtta aaagaagtca agggatatggc tgatcgtatc 240

attggaatgc ggaaggcact taaggaaaat cttgaaaagc taggttcacc tttgtcatgg 300

gatcatatca ctaatcagat tggaatgttc tgctacagtg ggatgacacc tgaacaagtt 360

gaccgttttaa caaatgaata ccacatttac atgacccgca atgggaggat aagcatggct 420
 ggtgttacga caggaaatgt tggttaccta gcaaatacaa t 461

<210> 53588
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F2

<400> 53588

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 ccagggttgt ttaagtggcc atgaaccctg tggagcatac ccacggagga ggtaaccacc 120
 aacatatctg tcacgccttt actgttcgcc gcgatgctat ccctgtccag aatgacggtc 180
 tcattgatgc tattaggact ggctggctca taagtcatgc tgctgacaca accactaatg 240
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<210> 53589
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F3

<400> 53589

gcaataatgg gctgggttact gctttcatgt cgaatctgat tacttctgat tgatgcatat 60
 ccttgggtggc tggtggctag cgaatgcttt cagaaaccac ctcttctggt tagctatttt 120
 gggcagtaag tcaagcagt ctttgtattt tgtaaataagg cattctttat gtttaataaat 180
 ctgtatagaa acaaaattgg tcattcaata atcaatagta ttatcagaat tacatttctg 240
 tactacaaca attattttat caaacaagtt aaaaaactat cttgggaatt ttatccaacc 300
 tatttttttc taagtcatgt ttaggaaggt aggtttgtaa tttttactat tacaagcagt 360
 tatactaatt gctattaaat actactcaat ttacatttag cattctgtat tcagggctga 420
 attgcttcat t 431

<210> 53590
 <211> 377
 <212> DNA

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 ggcctaacat gatgtcacca ttgatgatac cacgcatgat ttcactaatg gtctttccga 120
 gcattattta acaaatgatg atgccacaat gtcactgcga cgcctattcg catataatgc 180
 tgtatcaaca gtaaccattc atgaacaacc caatggccat gacgaattca cctatgttct 240
 tacaacaact ctttttttga gctacattct aaatataaat atgaaatttg taccaaaca 300
 tgatttgaca tgccatcttt attaactcat gattattaac tattactatt a 351

<210> 53593
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F8

<400> 53593
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 acaagagcag cagcaagctg atggtgatcg acttctcggc gtccctggtgc gggccctgcc 120
 gcttcacga gccggccttc aaggagctgg cctcccgtt caccgatgcc atcttcgtca 180
 aggttgacgt cgacgagctc gcggaggtcg caaggacatg gaaggtagag gcgatgccaa 240
 cgttcgtgct ggtcaaggat gggaaagaag taagccctgt gattgggg 288

<210> 53594
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G1

<400> 53594
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 gggtcgtaaa ttccctacga cacaactatg ttgcaatgct ataaaaagag ctgatatggc 120
 ttgcgctctgt cgtagcataa cactagaaga gcagctcaca ataagtgtcg tgaaggttgt 180
 ggatgttgca aaggaatgtg gcaaccggg gccgcctgga aataaatgtg gaacttggac 240
 tgttccacca caactgctgg gatgggtgca tccgtaaggg ttcaacaaag cgagcaaca 300
 agggcgcgat gataggagtt caacaatgaa agcaatcata ggaaaatctt gagataaatg 360

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tattt 425

<210> 53595
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-036-Q1-K1-G10

<400> 53595

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agtcgcgaaa cagcagcgat ggttttagtgc ctctgcctct taatgcagat ggtgctgttg 120
gttcaggaac aagcacaagg gaccttgaaa attcacttca gaaggcacia gaaaacttta 180
ttaagagcca gattgagatg ttacagatcc aactgcaa atgtgcagcgt ggcgctgctg 240
ggccgtccag taacgagaat actgatcaca cataagaatg actgaatctg tgaacagaca 300
cttctgcac gtggtgta ataaaggaga atactgatga gcacacagct gaatctgtaa 360
ataggcggcg atgaggatgg gacaaaagat agccaaggat tggcgatacc tgtggctggg 420
ggaaactgtt acatgatgtc tngcctggat ttg 454

<210> 53596
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G11

<400> 53596

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ggaatggaga aactatccat gccactgttg tttttgtcag tcacaacaac agtaagtga 120
ctgtcctcca agcgtgatga tgaaccagat aacaatacag aacattctga acaaatgaa 180
ttggcatcaa cttctggcac aagtgatgct gctgatggca caaaggaaat cgtacaagag 240
aactggcttg tgttactttt caggagactt gagaagcaag gcatcacttt acccgagagg 300
tttactgaag atgaattacg cagattttat gttgctgcaa atggtgactt ttcaagttaa 360
ctctcttcgg ttaagaagac aattcgttgg agggaaacgt ttcacatact tacactgcaa 420

gaacttgata aatggtctca cttagtcttt tggcat

456

<210> 53597
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G12

<400> 53597

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tctctggaag atctttacaa tggcacctca aagaagctct ctctttcgcg caatgtcatc 120
tgctccaagt gcaagggcaa gggctcgaag tctggtgcct caatgaggtg ccctgcttgc 180
cagggctcag gcatgaaagt cactattcgt cagctgggcc ctccatgat acagcagatg 240
cagcatcctt gcaatgagtg caaggggact ggagagagca tcaatgagaa tgaccgctgt 300
ccagggtgca aggggtgagaa ggtcattcaa gagaagaagg ttcttgaggt tcatgttgag 360
aaggggatgc atcacaacca gacgatcacc ttccctgggtg aagctgatga aacgcctgat 420
actgtcactg gaaacattgt att 443

<210> 53598
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G2

<400> 53598

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<210> 53599
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G3

<400> 53599

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ccggcttcac taggggggaa gcttccatca aagcctacgt ctcatccaac ctgtccctcg 120

tc

302

<210> 53604
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E10

<400> 53604

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agggcccaag atgtcaggct tacttcccaa ttccgtgcgc ccctatcgcc gatcttctga 120
tcttcactct ccacgcctcc gccatacatg cgcagatacc tgcctcggca actaccgacg 180
ccgccgtggc cgtcacaaac ccgcatccag gaagcactgg cactgtctgc tgtatattgg 240
gcgccagcgg tccggactct cgtctggaac tctacatgca cgacatcctg tgccgggtcga 300
gcctgacagc tcatcccatc accggtttgc tgggcatcat ctaccacggg catgtccatt 360
tcgcgcgggc ca 372

<210> 53605
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E11

<400> 53605

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gaggggggtgt tcacaaatcg acggatccta gagctagctt aagagctggc tatgcctctt 120
gctgcatgtg aagtactccc gctagacctt catatttact ggcgcacaca cagtccatga 180
tctagctatc tccgacaatt tgctggactc aaccgatact gtgtgcacct gaaatctggt 240
gtacaagatt atgtgataga ggatgcatca tgaccaagac agacatgtga catatactac 300
accgctaact acacagagca actaatggc aaaactcata tgcgcatcac tggactggac 360
acagaataaa gctcagagtc attgttcaat actaatgctg atggcagcac agcatgtgc 419

<210> 53606
<211> 433

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-036-Q1-K1-E2
 <400> 53606
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 tgaacggaag gaggttaagc agatgttaat tgctcttcta ggagaatcag aaatgaggct 120
 atctgatgat atcattgaga caatcctgga taagacattc tctgatgctg atgcaaata 180
 ggatgggaaa atagatagaa cagagtggga gaattttgtc acaagaaatc cttccttgat 240
 gaagataatg actctgccat acctcaagga catcacaaca acattcccca gctttgtggt 300
 taactctgaa gtcgatgac tcgtcacgtg accacgattt tctcttcgat gtatagctaa 360
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 aggtatattc atg 433

<210> 53607
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-036-Q1-K1-E3
 <400> 53607
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 aggtcggaat cctgcgggag gaactggctg gaccgctggg tggaggagag gtacatggac 180
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 acgacgatgg gttccgagca gaacagccgg agctacgca ccatggcgga gtcgccgtcc 360
 aaggactcga cgaccgcga gcagtcggtg ccgagcccgg cgtctgtggg catg 414

<210> 53608
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-036-Q1-K1-E4

<400> 53608
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 tcagcttata tatattcttc tgcccgatga gcagtccagg cttcagatct tcaaagcctg 180
 tctcaggaag tctcctgtgg ccaaggatgt tgacttgaat gctctcgcca aatacaccca 240
 gggtttcagc ggtgcagata tcacagagat ctgccagcgc gcgtgcaagt atgccatcag 300
 ggagaacatc gagaaggata tcgagaggga gaggcgcagc aaagacaacc ccgaagctat 360
 ggaagaagac gaagtagacg aca 383

<210> 53609
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E5

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 agcggatga tgaactgaaa gagcgctatg gggtttctga tattactgtt tcagtacaaa 180
 atgtggcttc tcagcggggg tacagtagca ttgacttggg gacgcttgag gacatgggtcc 240
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 ggaagccatt ctaaacaaga tacacataca caatagttct gctccggcat acctattttc 360
 tggccagtta ccagaccttc gatgcttcgc tgttcaagaa accgattgca gttgcctacg 420
 gctcaaagca caagcgcgtg aaatcta 447

<210> 53610
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E6

<400> 53610
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ggataatcta ggacatggac gccatggagg tggagaagct gatcttgtac atgctcaaga 120
tcgacgtcaa gaagctgatac tacctcaagc tcaaggcgct cgtctaatac cccgatctagc 180
tctacgtcgg cgcgctgggc ttccacgcgc tccctggcac gggcgctctac tggctcgttt 240
gcgcgggtccc ggacacgcgg cgcttacagc gtcgtctgcc gtgtcgtcta cagctcaatc 300
cccatgggtca tgcgcctcaa ggaggacagg gcaaacggca tgcgtcaagc gcagtaagga 360
ggtcattggc cacggggaca ccgagctcat 390

<210> 53611
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E8

<400> 53611

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ggtcacgcct ctactgtccg ccgcgatgct cccctggcc agaaggctcg tctcattgcg 180
gctaggagga ctggaaggct cagaggccag gctgctgcca cagcctccaa ggctgacaag 240
gccacctaga gtattgttgt tcttgtttta tctatccctc tgctgtgatt tattagatgg 300
ttaaaaagga cgtgttccgc tatggatggc actatgggtga aacattgtgt cagtttttgt 360
ggtatctgta tggattttca agtatgccta aagaagtttt tgggtgctc 408

<210> 53612
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-036-Q1-K1-E9

<400> 53612

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gtttgttaag acgagttgtg gtagcccgaa ttatgcagca cctgagggtca tatctggtaa 120
actatatgct ggtcctgaag ttgacgtctg gagctgtgga gttattcttt atgctcttct 180

ttgtggcact ctcccatttg acgatgagaa tattccaaac cttttcaaga aaataaaggg 240
 tggaatatat acccttccta gtcatttgtc accttcagcg agggacttga ttcccagaat 300
 gctgggttgtt gatccaatga aaaggattac aatacgtgaa atccgtgaac atgtgtgggtt 360
 caagatccga cttccgcgct atttggctgt gccgtcttca gacactgctc aacatgttaa 420
 aaaggtcgac gaggaaactc ttaatgatnn gtataagatg 460

<210> 53613
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F1

<400> 53613

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 gccgagcatg atttctcata tgatgatgcc acaattgtca ctgctacttc ttctttcaga 180
 ttattcttca acagcagtta ctattcattt tcaaccctaat tgccatgatt atttcaccca 240
 tgtttttaca gaaacccttt gtttgtgctt cattcttgat ataaatat 288

<210> 53614
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D12

<400> 53614

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 tagctcgaag ggtttcaagg acggtggctg gtgtgacgaa agcgtctagc acaaagtgtg 180
 ctgctgctcc cattagaaat ataatatcgt atgttatgtt gatgcatata tatgcatcat 240
 ccatctacct gtgtgggtgca aaattctgaa taaaatctac ctgtgtggtg caaaaaagaa 300
 ataaggatgat attaatctac aaaaaagcaa aatatccaag atatgaacaa tcgcgcatat 360
 aaaaaacaaa aatggggccc cct 383

<210> 53615
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-036-Q1-K1-B5

<400> 53615

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 ggtggcgact ctgtcgtgc tgtcgagaag gctgggctgg ccgacaagat gagccacatt 180
 tcgaccggcg gcggtgcgag cttggaactc ttggaaggca agactctacc tgggtgtcctt 240
 gccctcgatg acgcctagat ccgctgctgc tgctgtact caggttctgc cagctttgcg 300
 tgtcatcttg tttcggacct tgggtgtagca ctgcaaggct aagggttact cctncacaca 360
 tggactttcg aggataggct tgccaccgtg ttttgctaga tgagtcgtga aataagcttt 420
 tacttcctcg ctgctgtggg tg 442

<210> 53616
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-B6

<400> 53616

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 attgccgacc accgccgcac cttgaagacc gccgtgctgt tcgtcgtggt ggcccgtctc 180
 aggcaacgac gagtacgccg gtcgcggcct caaagacctc ccgccaccgc tatgacttga 240
 agccctctc catgccaatc aagattcatg gtgaacgaca tccataacag agacggggtt 300
 gtcctcgga cctcaagagg agggcatgac actacgaaaa tcattgattg tcttcaggac 360
 cgtgatacta accagattta tattattgaa gatacgatgt gtaacgcaaa attcctgaaa 420
 catggtttta ggaagtctgg tgacc 445

<210> 53617
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B8

 <400> 53617

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 cgagggagaa atgaaacact atcatctttt cctccctctt caatagagct ctgttcgtct 120
 cccctcgtat aaattgccga ccaccgtctc accttaaaga ccgccttgct gttcgtcaaa 180
 atttcccatc ttacgcaact actattactc cggtcgcagc cttaaatacc ttccgccacc 240
 gctattactt gtagccctcc tccatgccaa tcaatattca tggatgaaca catcca 296

<210> 53618
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-036-Q1-K1-C12

 <400> 53618

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 cgatggattt gtcacccgac gacgtgaagg cggcgaacat gcggcctgct gttgctgctg 120
 ccgacggcac gtcgacgctt ctgcgggggtt ggcgggagtt catgcggagc ggcgcgccgg 180
 cgaggttcct ctgttatgag gacggcaagt ggatcggtat caccggagag gcggtgccgc 240
 agctgcgcca ggcgttccag gagaggaggg cgatggccga tgcttcgtac ggtggcaagg 300
 cgtacctgtt cgacttctc cgcatgatca ggatcgacga ggtcaccggc gaggagaccg 360
 ggctggcgtg gatcgacgac cgcggtgact gcttcttccc ggcgcccga tgcnagagga 420
 ggaagcgc 428

<210> 53619
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C2

<400> 53619

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cgtcagttag gtcgccgcaa agggcggcac taataacgtt aacaagaaga aggattcctg 120

acctgtttgc ttaaattctgt ttgcttgtca acccaatttg tgggtgttaa aaaccttagt 180

ttgtgtcctg ccccccttgg ataattgttg ggtgtttcct tccatcataa ttgcttgaca 240

cggctatagt attcgcattt gaaataaaaa tctctctctt aaaactctct aggttctaaa 300

aaaaaaaaatc attattttaca atttcccttc tattaacaaa aaacataaat ttataatata 360

ctttt 365

<210> 53620

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C4

<400> 53620

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tctggatttc cttcaaaggc tggattaatt cttgatgttc caaattgttg caattcgaca 180

cacaacatga ttatggaggc cattgagtac aaagttgtct tgaagagata tgctgaggaa 240

caacttgagc cttcaccaga tgatgaatag tggacaaatt ctgaggcgat tggagagttt 300

cttgggggca tttgaggaag ctacaaaagt attctcaaca catagaagtc caacatctca 360

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caaatcaatt ggggtgcttga agatctaa 448

<210> 53621

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C9

<400> 53621

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ctcattctga tctcttttcag gtttcgtatt ctatatatac tagagcaciaa tacttgccctg 120
atgtctaaca atatgcattg ccatactcat ttcctcatag attcttctgg attatttttt 180
gacaatagat aatcattttg atgaaagtcc gtagctattc tgtaatctaa ttcagaaccg 240
atcaataatt cattttttca aagataaaaa caattacata acatatgggc aaagattgtc 300
ataatatgtt caaacatgaa ccatgcaata tatacatcca tactttacaa ctgtagtatt 360
agtagaatgc acagacataa atattatagt agtaaaacac attcttagca agttattgcc 420
attatattaa catcattcac agttacacac cact 454

<210> 53622
<211> 511
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-036-Q1-K1-D1

<400> 53622

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tctccggttc tcttcttgn agtccagcca tagcctaggg atcggccagt gtgcggactc 120
ggagggagcc caccacttcg taatcgaagg gcctgacgcc ggagccgtcc aagaacctac 180
ctcgagcat gggctgtgca ccgtctcgta atgaaccggg gcttcacgt cattcaatga 240
actcgctccc tgcaaggggt tgtggagggt ttctactctc aaagacctgg taagcattgg 300
ccatgccaaa tgccactttt gttggccata gacatanttc aactgggaaa aaagctcgaa 360
gatattggtt ccttcgtcac actaactgtg atattnccgc atgtgaactc gtactgagta 420
ccagctgatt gatatatcag aggatggatt tgtgagcctt cttacttcag atggcaacac 480
taaggatgat cttagacttc caactgatga g 511

<210> 53623
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-036-Q1-K1-D10

<400> 53623

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gctactggat ttgcagtcaa tgctactggg atggccaacc aactacaact aggaaatagg 120
ttgccctggg caaactattc aactaaacta atcgcgactc accactagtc ggctagtgtg 180
tgctcagggtg actagacttg atttatgatt tggaaacact agtagctgct tatcttttat 240
ttacgctagt tatcctcaaa agaccaccaa atgttattat acacattcgt agcaatcgta 300
taagggtata ttatgctaca gtgaacgatg tgccaaaaaa tggataagcg tgttcattta 360
aattctaaga gagccatttt atgtccttgc tggatacaac aacattttga tttactgtct 420
ngcatncgaa ggggtgcattc caagcctata tct 453

<210> 53624
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-036-Q1-K1-B3
<400> 53624

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tgtcgggtat ttgtggaacc cttgggcaat agtcacttgt gtgggatcat gtacatcacc 120
aatcgagaat ctaatgggtg taataatgat ctacggatcc tgttcacgtc tggctcctct 180
tgctgctttt ggatatgtta tggccacaca cctctctctt tatcctgcaa ttctcatagt 240
accggtcatt ctgttgctgg gttatggtct agatgctcct cctccaaaag tatttgttat 300
aaaagggtca attgccagaa aaagtgatgt gtcagacaat gataaaacaa gcagacagag 360
agttgttcag cagttttcat ggaaaccagt acttcacttt atattttggc tgctcaatct 420
gtcgtgccat gtg 433

<210> 53625
<211> 451
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-035-Q1-K1-H3
<400> 53625

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cgagatgggc cgcaagttct tcgttggtgg caactggaaa tgcaatggaa ccacagatca 120
 ggttgagaag attgtcaaaa ccetgaatga aggaaatggt ccctcttcag atgttggtga 180
 ggtcgttgtc agtcctcctt atgtgttcct cccggtggtc aagagccagc tgcgccaaga 240
 gttccaagtt gctgctcaga actgctgggt gaagaaggga ggtgcattca ccggtgaaat 300
 tagtgctgag atgctcgtca accttggcgt tccctgtgtc attcttggac actctgaaag 360
 gagagctctg ctgggagaat caaatgagtt tggtggatac atgggttgctt ttgctctgtc 420
 ttatggacta aaagtcattg catgtgttgg t 451

<210> 53626
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H6

<400> 53626

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 tcccacctga ccagcaacgt ctcacttttg ccggcaagca gttggaggat gggaggaccc 180
 ttgctgcata ccaccctaa gacgcagtac caagtggatg gtgctctcct tctagatggt 240

<210> 53627
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H8

<400> 53627

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 aacctttgga cttttagtaa actacacagt aactttcacc tattgagttc tgacgttggg 120
 tacacatgct caacaaatct gcaagaatca caggccttga tcccgaacta ctttacgcgc 180
 cagagaaaga aaaagaaaga aaaaaaaaaag ggttcctagt agtgttacc tatgacgagg 240
 agct 244

<210> 53628

<211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A1

 <400> 53628

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 gggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa ataaaaaaaa ttaaaaacac aaaaaaaaaa aaaaaaaaaa ataataaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tatacactaa cataaaatta 240
 taataat 247

<210> 53629
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A10

 <400> 53629

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 gcagtacatc ctccgggctg ggcgccatcaa ggcctcggc tccttcagga gcaacgcgtg 120
 atgagcgggg cttggctgtg gagcaatggc gggcgacctt cgggcggggg gccgtgagcg 180
 aggagaatgc catcattcat cgatcgactt gggcgccggt ggttggttcg ggctgccttt 240
 tttttgtttc agcagctgct gcgttgcgcg cgtgcgtgag atttggtttg gtttcgttcc 300
 cctgcaatgt aatcatgtcg tgactctcaa gggattattc cgctctgctc ttatggtctc 360
 tgttttctat ttaatgattg ttattaccat gtagcagtaa ccatcgtcac cagtgagaac 420
 cttgttgctt ctgtctaaa 439

<210> 53630
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A11

 <400> 53630

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 ttgttagtgt ccaactgtgaa caaacatcga ccatccattt gcacagaaca gtcaatcagg 120
 taatatctgt accaccttat atttacaagt taatgctcag ataatagtat ggaacttcaa 180
 tgtattttgga tataaatacc aacgaatgtg gctttttacct tcttgcttgg tgttgtagaa 240
 cacaaatggc ttcaacgaat attttgctta aacccttcac tgtattttttt tcattcagga 300
 tttagctaata catggactat tacgtaatga atgtttttct ttgtgtgtgt gtgtgtgttt 360
 gtttggtttg tgaggctgaa ttattactaa ttactgggct ccaacaatag ctataggagc 420
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<210> 53631

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A12

<400> 53631

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 aggggtgtgt attaaacatt gcacaatcaa tcattccgta gttggactcc gttcctgcat 180
 ttctgaaggt gcagttatag aggactcttt gctaattgggt gcagactatt acgagactga 240
 gaatgataag aatgtccttt ctgagactgg tggcattccc attgggtattg ggaaaaattc 300
 acatatcaga aaagcaatca ttgacaaaaa tgctcgcat ggagaaaatg tgaagataat 360
 caattttgat aatgtccaag aagcagtaag ggagacagaa ggatatttta tcaaaagtgg 420
 aattgtcacg gtgattaaag atgctttaat tcctagtggg 460

<210> 53632

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A2

<400> 53632

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gaggacagag gagtcattgga cgcgggcggc gcgggcggtg cggctgcgag cccacagagc 180
aagaggatcg cgctggtgac gggaggggaac aagggcacgc ggctcgagac gtgccggcag 240
ctggcggtcca ggggcgtcag ggtcgtcctg acggcgagga acgaggcgag gggtttggaa 300
gcggtcgagc gcgtcaggtg cgcccgcggc gacgccgagg ttacttcca ccagctcgac 360
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ctggacatcc tgatcaacaa tg 442

<210> 53633
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A5

<400> 53633

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aagatctttc tgtcgaatca gcagtggatc tgcagaaagt tcttaaaaca agtacattta 180
cttcaaggaa ggatgcattc aacacccttt tggctaacat tcctttgttt caaagtcgac 240
tgaggagccat gctatttctt atttctgctt tgctttcacg aggattggaa gacatccaag 300
cagacagggg tgatccaagc cagccattgg tctgtctcc atttggtcat gcttcacagg 360
aaattgtgaa ttattactc tgtggagagg ctgttccaaa tgtatttgat ggcaagatgg 420
accttgggtg tggcatg 437

<210> 53634
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A9

<400> 53634

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gatcgtgtgt ggtgactgtg gtcgccgtat acctgacgta aaaaaacagc agtccacatt 120

cggggggtcg tgcgaccttg caccacgcac tcatcgctgc acccttgaga acacgagaca 180
catctaattg tcatcgctgc ttgacagagt agtacaatag ttaccatcgt gtcttgctcg 240
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<210> 53635
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-B10

<400> 53635

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ccccgcccc ggcaccgcgg catcggcggc gggagcatgg cggggcgctg ggccgtcctc 180
gccttctgtg tcgcagggat ctggtcggcc tacatctacc agggcgctct ccaggagact 240
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ttcgcgaga acgtcatctg cttcgtctgg tccttcataa tgattaagct gtggtcgggc 360
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accatcgggc cgaccatggg gatcgaggct ctcaagtaca 460

<210> 53636
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-B2

<400> 53636

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aattctataa gaaggtaacc aatctaccgg agccttttcc ccatgatctt gttgagaagt 180
tagaagaata cctggataaa cttgaagggc aactcgtgga cttgtcttcc ttattgtatg 240
accaccggct ggtcgatgca tatcaaaaca gtaccgatat cctgcaaagc actattttta 300
cacaacagta tgtggaacgt gttctagcta acgagagaga caagatgaaa tgctgtagca 360

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ctggatttct tgtgtattca ctggttattt 450

<210> 53637
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H2

<400> 53637

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tcccacctga ccagcaacgt ctcattcttg ccggcaagca gttggaggat gggaggacct 180
ttgctgcata ccaccctaa gacgcagtac caagtggatg gtgctctcct tctagatgtt 240

<210> 53638
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G1

<400> 53638

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ggtactcagt gccccacgta tttgacgtat gtctgtaaat aagtggcaca ttcgagcgct 180
cttcgctctg ccattgaggt ggatcgaagc tgccacatat tttctccgca ggacatcggc 240
acgaattttg tcttagcaaa ccagttaatt ttgtactctt tagattcttt aattggttcc 300
atgctctctt tggtagcttt catgtcagtt tgctttgcaa acattatcag cgtgcccttg 360
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<210> 53639
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-G10

<400> 53639

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gactggcaat gctccacctg ccattcagtt cgttgggtgag gtattaatca ccagccatgt 180

tggcacttgg cggcatgcag atggagcaga acatccaggt gaagcggaca gatacatgat 240

cgatcatgag ttggcgcaga cacaggccat acaaccagag gctatatcc aattcataca 300

ttccatgata agcaaaggaa gatccatgac aacacatata taaaaatagt tagttataca 360

agcaaaaatc ctgttggttt gtgcctccca ttttctagtc cagaattaat atgacaattn 420

ttcactgaaa ctggttggtat cagagaccag gaaaaaaagg ga 462

<210> 53640

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-G3

<400> 53640

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gagaaggcgg agaagacgac cgcaggtgag aagcccaagt ccgagaagcg cctgccggcc 180

tcgaagtcct ccggcaagga gggcggcgag aagaagggga agaagaaggc caagaagagc 240

gtggagacct acaaaatcta catcttcaag gtcctgaagc aggtgcaccc cgacatcggc 300

atctctctca aggccatgtc catcatgaac tccttcatca acgacatatt cgagaagctc 360

gccggcgagg ccgccaagct cgcgcggtac aacaagaagc ccaccatcac cttccgcgag 420

atccagacct ncgtgcg 437

<210> 53641

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G4

<400> 53641

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tcgcgcccac cgcgcctccg gatcgtctcg gagatctgcc gctgaggag ttgcatataa 180

tctgagctgg tgctcctcaa gtgttcggaa gaggtccctg ttttattcgt ttttgttgg 240

gcgattgcga gtgtaatgga ggaagtggag gaagcgaaca gggaagccgt ggagagctgc 300

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<210> 53642

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G5

<400> 53642

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gcattgcgaa gcgttagccg gagcccagct aggatttcaa ggagcccact taggccttct 120

aggagaagcc ctatgagaag tccacgacgg aacattcaca gaagtctcag caggagccct 180

gcaagaatac ttagaagtgt gagcagaagt ccagtaagag gtggtcgacc tcgccggaac 240

attagcagaa gtcccagtc acttcgcagg gcattaacac caccaaaca tggaaggagc 300

cgatctagga gtgattctcc tgatgggtca cccaaacgca taagacgtgg acgtggtttt 360

actcaacgct attcatttgc aagacaatat cgctcacctt ccgctgatcg cttgcatcgc 420

tatggcggaa gaaatgaccg tgacagatac atgggttacc g 461

<210> 53643

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 53643

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ggtggtgggg ctacgtcttt tcctacagct gcgcctcaag gcccttcctc agtagcattt 240
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ccttcagctt tctctccagt tggatcaact cctggcatgg tgccctccacc tattgcatct 360
tccggcctgc ctgccccgcg tactgccaac actagctgca tccagacaca agtagtagcc 420
cctttgagac ctncgntccc agccgcgggc gaatttactt 460

<210> 53644
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G7

<400> 53644

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cggacatgca cccgaccgac tgagaagaca aagaggaccg ccgcaacgac tggctttccg 180
gcacatgcgc tggttcagcaa cccggaagat ctacgaccgc ctcgaggaag acgccttacg 240
caccgtccta gaccaattcg acgaccatag ttacggcggt gagctgtact taccgatgac 300
catggcatgc tcaacaacca gtgcgactag gactaagact gttgccaatc tgaactgtcg 360
cagggtcaat ctaagctagt atgcac 386

<210> 53645
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G9

<400> 53645

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ccaagacgac agccatgtca ctctccgcga tggggatact cttatagtcg ccgtggcacc 180

taagcctcct gttaatcatc ttcttgatga tgacgttgag gacgaagaag aggatgaact 240
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agacaaattg agattgcctg atatcatttt gatggcgctg ttttctctca gtatgaaagc 360
atggattatc attgcaatgt ggttcctatt ggcaccgatt gctcagaagt acgacattgg 420
acctttatat ataattggta ctggtttctt gatcatac 458

<210> 53646
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H1

<400> 53646

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agggaaataa aaaaaaaga aattagataa taaaaaatgg cggatgcttt ggaggctcag 120
gtcttgcttt cagcagcgtc caatgtctta ctttttgttt cgggcccttt aaatatattt 180
tagtggccgg tgttttaaac tgctgggcct gggtaaacc cggctttacc cagcttaacc 240
gt 242

<210> 53647
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F8

<400> 53647

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ccttagctgt tgcagctatg tgtttgcagg agcaagcagc atcccggccg ctgataggag 180
acgttgtcac tgcaactgtct tacctagctg cacatcctta tgatccaaat gcgccttcca 240
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gtgttcctga tgctcaacat gctgctgagt cgcttatttt gaacttccca gacatgagga 360
aggagactgt cagaggaggg gaattcgaga aggatcgtac tgaaggttct ggcagcagca 420

gtagctctgg aaggaacgat tgcctggatg

450

<210> 53648

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E12

<400> 53648

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tactacttac acttacaacc tattaatcaa caatcattta ctcaaccaat tcatacacia 120

catccctacc aaaatcagtc ctattgcctt acaaactaga tctacctact attattccta 180

taccactgac ccaactactg ccaaattaac ctcttactct atctacaatc acttaactaa 240

cattactacc taaagcacca ataccttaca atatattcaa taacgacaaa ataatccctt 300

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tgttgccatc 370

<210> 53649

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E2

<400> 53649

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ctcaccgctc ctgcacctcc tgtttcacgg ggctcaggtc cacagaaatg tccataaatt 120

cagagaagtg cagcaatgca cacttctttc aatcaagact ggtggatgca gtgaagattg 180

ttcttactgt cctcagtcac caagatacaa cactggattg aaggcccaaa aattgatgaa 240

caaatatgct gtcttggaag cagcaaaaaa ggcaaaagag tctgggagca cccgtttttg 300

catgggagct gcatggagag aaaccattgg caggaaatca aacttcaacc agattcttga 360

atatgtcaag gaaataaggt gtatgggcat ggaagtctgt tgcacactac gcatgatgga 420

gaacaacaag ctgat 435

53648 53649

<210> 53650
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E3

<400> 53650

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tcggggccgt cctcggtcga gatcatactc tcctgctcca aggcggggga atgactactc 180
tgcctctcca aggagacagg aagcccatcg ctcatctcct cccaggcgcc tgccaaagga 240
gcatgatgaa gataagaagc ggaggtccta ctctcctgcc agtagagatg atgctgacaa 300
tgtttatgag aagaggctgc ccccagcaga cagcgatgga tctcctctgc accgcaggtc 360
ccccaaggag tactcgggct caccttctgg atcccgtcc aggtccgccg acgattcctc 420
tgttgccagt gactgatcga ccgatggatg cta 453

<210> 53651
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E4

<400> 53651

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taacaagggt atagcaccca aaattccatg ggacagacac aaatcagaat gtgactcagt 120
gtcagacgca agccaaagggt cagaggatca ggatgagtgt ggcatagttg acgcattggc 180
ggcagcaata acacgtgtta gaatatcaga gccaaagaga agtcgggtct gtagccccgc 240
aattaccatt cagcaggaat gctcgtcaaa cttgaagaat aatctttgca cggctttctg 300
acctgaccta gtttatagca cctgatcgga atggcgtcca ttcttctcgc tgagaaggtc 360
gttctgattt aggtgttgta gaggcgagga taataactca gcttttccag ccagcaacaa 420
acgtctggta tttagtgttt ctttcagtgt tcctgat 457

<210> 53652
<211> 189

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E5

 <400> 53652

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 tgctccaatg ctttctaata tctacacttc ctctctaacg tgacacgact cccattgctc 180
 atctccttc 189

<210> 53653
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E7

 <400> 53653

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 gggatcatgaa cgtcgccagc cttgttacta tggcggagc cgctctcgct ctctctgcta 120
 tcgcggccgt cctccgtcga catcatactc tgctgctcca aggcgggtgga ctgactactc 180
 tgcctcttca aggagacagg aagccgatcg ctcatctact gccaggcgcc tgccaaagga 240
 gcatgatgaa gataagaagc ggaagtccta ctcttctgcc agtggagatg atgctgacac 300
 tgtgtacgag atgaggtcta ccccagcaga 330

<210> 53654
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E8

 <400> 53654

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 tcatgaagct ggagtgtcaa atcagtatca agctgcttta acccagaatg tactgccagc 120
 aatcgctcag atttcacagc tagttgctgg gagccatcgt ccagttggca tcccaaata 180
 ggccttctgt gttccgctc aatatggtag tggtagtgc aattattatg gagtgcagtc 240

caccaggcca tacaggccca tcaactctacc tgctggacct ggtgctttga atggccaag 300
 tgcgaggcca tcttcaagat caaggctcta ttctggagat ccccttgagg ctgtctcccg 360
 atcatcagat tagaagggat cgtcttaca gtattctttg accaatatgt caacttatga 420
 tc 422

<210> 53655
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F1

<400> 53655

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 accagttgga gctcatcacg tcccaccgtc tgatgggatg cagccactat ttgtagcccc 180
 tgctcctatt tctgctgcag ccataccttt cagccaact gttcccttgc aaaatacatc 240
 agctgcttgg atacaagaag ttactccaag gctgctacg acacgattcc ctggtcctgg 300
 tacgggggtc ttacttgctc cgggatcagg ccaccctctg cctcatcaga tgatgccggc 360
 ttctcatggc catggcgaac ccaactatcc acaagggtca tccgcttacc tgcatagtaa 420
 cgtcaatggc acagagacat ctaatggcaa tctttc 456

<210> 53656
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F10

<400> 53656

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 tgcgagtga ggggtgggtc atccagtcac acaaaggccc tatcctcaac gccgcctctc 180
 tgcaacgctt tgaagatgaa cttcaaaca cacatttacc tgagatgggt tttggagaga 240
 gtttcttgct acttcaacat acacaaactg gcatcaaatt tcattttaat gcgcttgatg 300

cactcaaggc atggaagaaa gaggcactgc cacctgttga ggttcctgct gcagcaaaat 360
 ggaagttcag aaggatcatct ataactgtaa ttcatttttag tactcaattc agtactaccg 420
 agcattttgta gtgaaagatg ttaggttagt ttggcatc 458

<210> 53657
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F3

<400> 53657

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 gaggaaaaaa taataaataa aaaaaacaaa aaaataaata aaaataaaaa aaaaaataag 120
 gggcgcccggt tttatagggtt caaagtttac ttacccttgc ttacaccttc attgcttttt 180
 aatagagtcc cttaatttca attatctgcc cactttttta caacttcgtc tcttggaaac 240
 cccttccttt cccaattaa ttgaccttct aacacttccc ttttagtcct ttttgctttt 300
 taccgaaaag gcccttcctt atcttttttc caaacatttg cccat 345

<210> 53658
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F4

<400> 53658

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 actgcttaaa aaacaaaaga agcatttagat gtagctcgta acagcgtaga acttatatga 180
 actcgctttt cctcttctcc tgagcacgat tctttacaag atgacttgac aaccactctt 240
 gtgcaacaat gctagcaatc ttagcacact atccatatca ttattgagac cgatggagac 300
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<210> 53659
 <211> 406

[illegible]

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<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3079-035-Q1-K1-F6

<400>      53660
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<210>	53661
<211>	368
<212>	DNA
<213>	Zea mays
<223>	Clone ID: LIB3079-035-Q1-K1-E11

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tgccgatggc gtgttcacag attgacggat cctagatcta gattaagagc tgggtatgcc 120
tcttagctga tgtaagcact ctcatagac acttcatctt tactggcgcg gacactgtcc 180
gatgatctga gactttaccg aacaatttgc tggactcaac cgatactgtg tccacctgaa 240
atctggtgtc tatgatgact tgacagagca tgcataatga cacagacaga cagtgtctca 300
tatactacac cgctgactac acagatcaac taatgttcaa cttcatata cgcactctg 360
gtctggac 368

<210> 53662

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C5

<400> 53662

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ccagatgcaa ttccgccctc gattcgaccg cgattcgctc gtccgcgacc gggattccgt 120
ccgtcaagcg cggatctgaa cgctgcgctc cgtgtcgccg ctccaatccg ccatgaaggg 180
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ggagaagccc gccaaaggca ggaaaggga ggccggcaag gacccaaca agcctaagag 300
ggctcccagc gctttcttcg tgttcattga ggaatttcgc aaggagttca aggagaagaa 360
ccctaagaac aagtctgtcg ctgcggtggg gaaagctgct ggcgacaggt ggaaatccct 420
gagcgagtcg gacaatgctc cctatgtag 449

<210> 53663

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D8

<400> 53663

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catcagcttc cagctgcagt ggttccagca ggtcacctcc gccgtgtgcg ggcaggactg 120
 caagagctac ctggccaact cgctgttcgt gttcggcgag ttcgggggca acgactacaa 180
 cgccatgctg ttcggcaact acaacgcgga ccaggccagc acgtacacgc cgcagatcgt 240
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 gccgggggtg ctccccatcg gctgcttccc catctacctc accgtctacg gcacctgcaa 360
 cagcgccgac tacgacgcgc tcggctgcct caagaagttc aacgacctct ccaccaacca 420
 caac 424

<210> 53664

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E10

<400> 53664

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acctaatttc aatta 75

<210> 53665

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E8

<400> 53665

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aagccggtag cggcagggca agtggttgcc atctaaccac accctcccat gactagcaaa 120

gtatgttaca cttttcccat catcaacata catgtgggaa tctatactat aggtggtaca 180

tggcacttgc ctgaagccaa tggctgtaga ccatggagtt ttatcctttg tttttttcaa 240

tcttagattt gggatttaaa atttaaaaa 269

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<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H1

<400> 53666

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tactagtagc tgttgtcata agttataaaa tcaaaatcgc cagttcagtt ttagcagctc 180
cgttttccga tttttttctc ttctgtcggt cgcgtagca gctttgtgaa aggattagga 240
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<210> 53667

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-H7

<400> 53667

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gcgaaaagca gatccgtctc ccccgagccc cgaccggcga tcgctatcga cttgtagcgg 120
aagccatggc gtcggcagcg ctaatctgcg gcacggagca gtggaaggcc ctccaggcgc 180
acgtcggcgc gattcagaag acgcacctgc gcgacctgat ggccgacgcc gaccgatgca 240
aggcaatgac ggctgagtat gaagggatct ttctggatta ctcgagacag caggcgactg 300
gtgaaaccct ggagaagctc cttaaatggg ctgacgctgc gaagctcaag gagaangatg 360
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<210> 53668

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B10

<400> 53668

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<210> 53669

<211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-C11

 <400> 53669

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 ctcgccgccg tccctgctcg cgcggcgctg ggcgggcgggc gcggcccgct gctgggcggg 180
 tggaaccgca tccctgacgt gagegactcg cacatccagg agctaggcgg gtgggcgctg 240
 gggcaggcga agcaccagaa gctggccgnc gacgggctgc ggttccgccg cgtggtgcgc 300
 ggcgagcagc angtcgtgtc cgggatgaac taccgnetct acgtcgacgc cgncgacccc 360
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 ca 422

<210> 53670
 <211> 187
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-C6

 <400> 53670

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 accgtggcaa gattgaggct gaattgagca acatttgtga tggatccta aagctgcttg 180
 acacgca 187

<210> 53671
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-D9

 <400> 53671

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cttgattgct attattgaga atttttgcat tgatgatgca aaagaaataa agaaaatcga 180
gaaagtaacc aaccatgatg tgaaagccgt cgagtacttt ctgaagcaaa ggtgcagctc 240
caatccagag attgctaagg tgcggagtt cttccatttt ggctgtacct cttaagatat 300
caacaatttg tcacatgcat tggctctcaa agagggggta aatagagtta tgttcctgc 360
catgattgac atatgcacag cattatgttc cttggcgaca cataattcag gctaccctat 420
gttggctcga acttat 436

<210> 53672
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F10

<400> 53672

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gcggggctgc agggcttgta cggcgctggc gccggcctga cgacgatgat gggcgccggc 180
gggctgtacc cctacgcgga gtacctgagg cagccgcagt gcagcccgtt ggcggcgggc 240
ccctactacg ccgggtgtgg gcagccgagc gccatgttcc agccgctccg gcaacagtgc 300
tgccagcagc agatgaggat gatggacgtg cagtccgtcg cgcagcagct gcagatgatg 360
atg 363

<210> 53673
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F4

<400> 53673

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agataaccag cacctagtgt ctctgagggc catagatttc cttgacaagc ttttgcgtta 180
 tgatcatcag gagaggctta ctgcacttga agctatgacg caccctact tccaacaagt 240
 gagagccgct gagaacagca ggacgcgagc gtgacaggca aagagcgaag accatctgct 300
 cttttatcag tcagtcaggt tgtatgagat gagtagccgt tgggtcactt ggcagaaaat 360
 aaacaatagc ggtagagcct gtactgtacg taacgtaacc tcctcgagga gttgtgaggt 420
 ttgggacgtg attgcgaaca tggatatatta atgattgttc atgta 465

<210> 53674
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H7

<400> 53674
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 ggacgtcaac aatgagctcg cggtggtgga atacattgag gacatctaca cgttctacaa 120
 gattgctcag cacgagagac ggccatgtga ctacatcgac gcccaactcg agatcaactc 180
 taagatgagg gctatcctgg ctgattggat aatcgaagta caccacaagt ttgaactgat 240
 gcccgaaact ctctacctga ccatgtacat catcgatcag tacctctcgc tgcaaccagt 300
 cctgcgtaag gagctgcagc ttgtcggcgt ttcattatg ctgatcgctt gcaagtacga 360
 ggagatttgg gccccagagg tgaacgactt catcctcata tcagacagtg catacagtag 420
 agaacagatt ctttcgatgg agaagggaat tctg 454

<210> 53675
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A2

<400> 53675
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 cactgattgt cggtgcgctg actgatggga atcaggaaca gaagaagatg tggagattga 120
 tgatgagaag aaatctgaga ctgctatgac aaatgaatga gcgttatggg cttggaatga 180

taggatggcg gatcagattc ttttgctggt gagcaatgcc actcaagcag gggcgccgta 240
 caattttaac agcgctgctt tgctattgag gagtctggtt gttactgcat actcgggcac 300
 gcacgctctt ttatcatctc acctcatcac catcatccca catggaccaa tgctgctctgg 360
 cggctcctga ttttggtctc ttcgaactgt aatatctgca gtgaggtttt tccatcagtt 420
 ttt 423

<210> 53676
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B5

<400> 53676

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 tgtcatagat ggcttggacc ctcttattat cctgggagcc tcggtggttt ggaagcatag 120
 aaacagagtg gtgttcggta gagtttcttc caacctcact cttattctgg agtctgctaa 180
 tgaggaaagc gagaaatgac aagttgcatg agccaagggt taccctttct ggctgctcca 240
 agccatataa tttaggggtg ttggatcctt catggatatt ttaatgtact tctgttggtg 300
 gccttcgtaa gaagtgcatt tatcccgggc gtctttcagc tctttgtatt cttcgtcttt 360
 taatatagtg gggcgagctt ctctgtgct tttcgagaaa taaaataaaa agggcggtcg 420
 ttct 424

<210> 53677
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B6

<400> 53677

attccctggt cgaccctctc gtccgaaaaa aaaaacaaaa aaataaaaaa attattttta 60
 aaaaaaaaaa aaacaaaaaa aaagaaagga tattataaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaggacaa ccaatctaaa aaaccaacc ttaccctctc ttactttccc 180
 aatcctaatt ccccttattt tccccctaa attcattcca ttgcccctcc ttatatatat 240

aaaaaaaaa aaaaaaaaaa aaagaagata taataaaaaa aaataaaaaa cacataaata 120
 aaacaaaaat aaataatatt taaaattaca taaaat 156

<210> 53681
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-E2

<400> 53681

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 cataaaacaa agacgaactt gtgtaggctc actgcaacaa aaaggaatga aacgatactg 120
 aaccacgcat gagttcacca taaggtagcg aaagacaaaa cacagtaata cttcttgata 180
 ttggtttatg cagttcacat tccatttcat cttctactgg gaaggaatgg gctgcatctc 240
 tgggtgctgca gcaacgtcag ccacggggta cctgaacacg cgggcgagcc gctcagtggg 300
 caccagcggg agataggtgg ccacggcggt cccgcgcttg gcaccatcac gcaccgncga 360
 attgtacctg gc 372

<210> 53682
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E3

<400> 53682

tatacattgg gcgaggggct atcatcacat cttcattgt gtgctatgct cttacatcgg 60
 gtatttctgg atatgttagt ggtggtcttt actcaaggag cgggtggcaaa aactggatta 120
 aagcgatggt tcttacagca tccctctttc cgttcttgtg tttttcaatt ggtttcgcac 180
 tgaatacaat tgctattttc taccgctcat tagcagcaat accatttggc acaatggttg 240
 tcatgtttgt actttgggct ttcatatctt ttccgttggg gcttttggga actgttggtg 300
 gtagaaactg gagtgggtgct cctaacaacc cctgccgagt aaagactatt ccacggccta 360
 ttcctgagaa gaagtgttac cttacacctt ctgtcatctc attgatgggt ggcttgcttt 420
 cctttggcag tatcttcatt gagatgtact tcgtgttcac atcatt 466

<210> 53683
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-F10

<400> 53683

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tctatttaat ttactggaaa acacatgtaa cggttcccat gtagaccggc gccgtgagac 120
ccacatagtg ctcatctcat agcaacgcat agacatacca tgcattgcaac atagctactt 180
tggttaagacc aatactgaca tagcgccaca cggcgaacat acagacacgg cttacgcaca 240
tcatgatgcc tcgagatata tccggttcat acatcatcac cttcatgtca gtgttccatc 300
agtgaccgca cgcattggtg cgggcactac atactaagct cccattacat gcgtgctcc 359

<210> 53684
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H9

<400> 53684

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tcatgttccc ttatgctcgt gatagtgtag gaaaacatct gacttctaca tttgactttg 120
aggaaactaa agaagacatc aaactattgc gcatccaaat tgaagatgat ctacaaaatg 180
gagttgctgg ggctgttcca gttccacctg atgagggtgg caaagaagag gttatcaatt 240
cattggttgc caatgttgaa tcaatgatta aagcagaccg gaagatcaca tcattgaaac 300
aacttcaggg tcatatttgg aggattggat ttcaaagaa agagctacag ggagttgtct 360
ttgaggatgt tcctgtggcg ctaaagaact ggcatgctaa tggcataaaa gtctacatat 420
a 421

<210> 53685
<211> 83
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B12

<400> 53685

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tgggcgcaac aacttttttaa aaa 83

<210> 53686

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B7

<400> 53686

gtttcatggc gaccatatag gcatatatgt acacacttca catcccattg cgtgggggtg 60

tcttccctag ttcaacaact agctttctgc tggaataagg tggtcagagt tcagacagag 120

tatgtactgt acatactatc ttcttgcatt tggtactctt gtttagtgaa aagcgttccg 180

taaccttcgg ttgcctaataa aaaaaaaaaa aacaaacaaa aaaaaaaaaag agt 233

<210> 53687

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C10

<400> 53687

aaaaaaaaa aaaataaaaa aaaaaatttt aaaaaaaaaa aaaaaaaaaa aatggaaagg 60

aaaaaat 67

<210> 53688

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-004-Q1-K1-C4

<400> 53688

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agctatctgt gattgggcga aacttgaaac ctcagttttg aaaaggggat gggacgtacc 120
 atagctgcag tgcgaattct cagtttctaa gtgagctgaa atggatgcct tggaagcctn 180
 gattacttcg tcaaatgtaa aatgaaatct gatggcnttt ctgaagaaaa agggctttgc 240
 ctcatcatt cgtgtgttta tcagcgagcc tttgtcggct tgtttggagt tggatcccaa 300
 gctgttaatg gagcgattgg tcaactgccc tggctcattc cttgcttgct gtgaaagtct 360
 gcaaggcctt tgagattgga agacaattga ttttgtttga acctgaatga aggccttcgc 420
 tctctcaagt ttgtctattt gctgcaacaa agttgggggc t 461

<210> 53689

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C7

<400> 53689

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 acaagaaaat tagaagagaa gaaaattaac gacggcatga gtgaccacct tggtcgtggg 120
 tattcgtttc atatagatac agatgtacgt agtattatat atgagaacga agacgtgcac 180
 aggctccagc tagctatcaa gaatcaagga cgcggtagat gacgacgaag cagggcagga 240
 tggccctggg gttggccacg aagagctcct cgaggttccc gtacacgctg ctgctggcgg 300
 cgtcctcacc cgccaccgag tcgaacgggc cttcctgatc ctcggcgga gcggcggacg 360
 tg 362

<210> 53690

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C8

<400> 53690

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 tgagagggtc agggttgggt agcagcagca ggaccggctt gttcgccggc gactgcaaga 120
 ggaaggctcg tcgcccggcg tgctcggcct gggccctcag gcagagccgg atcggcagca 180

ggagcaggag caagaggggc ctccgcatcg tctgcaacct cgcgggacag tacgaggatt 240
 ccttcgacga cgtccagcgg caactgatga actacttcac ctacaaggcc gtgaggaccg 300
 tgctgaccca gctctacgag ctgaacccgc cgagctaccg ctgggttctac aacttcgtcg 360
 ctgtcaacaa gcctaccgac ggcaagcatt tctacgtgc tctcggcaag gagaggcaag 420
 agctcgcaga gcgagtgatg gtcaccaggc t 451

<210> 53691
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D6

<400> 53691

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 tcctttcatt cagaaaaaaaa aaattaaaaa aaataatttt aatataatag taaaataaaa 120
 aaaataaaat aaacaaaaaaaa aaaaaaaaaag ggcgaccgtt ctaaaagatc caagcttaca 180
 taca 184

<210> 53692
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F11

<400> 53692

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 aagcgacacc atgaggagga aaggtcaaaa tccaaactct cctggctctc gcaacgagcg 120
 ccacctccac gcatacaagc ggcgggtgcg gctgccagcc accgccgccg gttcatctac 180
 cgccgccggt gcatctgcca cctccggttc acctgccacc tccggtgcat ctcccaccgc 240
 cagtccacct gccgacgccg gtccacctgc caccgtcgga ccatgtgccg ccgccggttc 300
 atctgcccc gccaccatgc cactacccta ctcaaccgtc ccggcctcag cctcatcccc 360
 agccacactc atgcccgtgc caacaaccgc 390

<210> 53693
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-G12

 <400> 53693

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 acaaggtaat acatgagttc aacagggcac aatggtcctc aaaagtccat tcatacttgc 120
 gacttgactg gttatttagg tgataacgat ttgggggccg gcacattcac cagtttggcc 180
 agcttttagc cttgcttcta gcccattggc tacttctgtg tccaggagcg tgcggtggac 240
 tcatacttgc cctgtcggg cttgtacatg tgagcaatct cagggacaag aggatcatca 300
 gggtttgggt ccgtgagcag tgagcagatt gacaggagaa cctttgagat agttaaagc 359

<210> 53694
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-H12

 <400> 53694

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 gttcgtctc ctagctctgg gtgcaagcgc cactagtgcg acgcatattc cagggcactt 120
 gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 180
 ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 240
 gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga tgtcaccatt 300
 gatgatgccg agcatgatgt caccaatggg cttgccgagc atgatgtcgc anatgatgat 360
 gccacaatgt cactgcgacg ccgtctcgca gattatgctg caacagcagt taccattcat 420
 gttcaaccca atg 433

<210> 53695
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-A4

<400> 53695

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tgtcgccaaa gatcaagggg cattagacgg acaagtgcga aggatgtgag catgcanttg 180
tgcacgaatc tgcgacgct tegtaccaac ccaagagcag caacacgatt acatctatat 240
ccgtcgctta aatccgtttc gtttcacgc atgcatatgt atcatgcatg ttcactgtaa 300
tgataagagc acgtgaccct atctttgggtg atatggatca cccaccacaa aacggcctat 360
tggtttttat cctaattccat atatagattg gatgagattg agagagttaa attcttaaca 420
aatcagaata tctcttaatg tctcct 446

<210> 53696
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B10

<400> 53696

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gatagaatgc atgtgtgcat gcgtatgcac atgagaatgc agataatata tatgacagtc 120
tctacgagtg atatatctag ggatataatg acggatggca tgtccttcat catgaacgtg 180
atcaagaaag actttataca tgtctgcata cataagtaca aattaatgat gggatcaatc 240
atgtgtgcag acgagcatgt tgtagagcat gtttt 275

<210> 53697
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B12

<400> 53697

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ggaccgtcaa gaactccaag ttcgtccagg aacacaagaa gcgctgacca accgggtgga 120

gtcgtccgaa tcgcctgcgg atgaaaaatt agccccctat ttttcttgtc ttttttttat 180
ctagatgcgt gcaactctatt gtaataatgt aataagaggc aattggattg atccaacagc 240
aaccggcttc tgattttgat cgcgttcgct gacatatgca tgcagcaaac gaatatgtgc 300
cttttttttt tcttgatggt ggattgcac taatcctggt gaattggtga aaa 353

<210> 53698
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B9

<400> 53698

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agaaaaggta aaaaataaaa aaagtaaaaa acaaaaaaaaa ggacgcccac tcttaatggt 120
ccaatcttac aaccctctcc atccaacctt attactcttt tataggggccc cctaatttca 180
attcactgcc cgttctttca caacttctta cctgtaaaaa ccttgctctt cccacacctta 240
atctttttta accacatccc cttt 264

<210> 53699
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C5

<400> 53699

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ccgtcaggac gctttgtcgt tctccggcac agcgaacggt gtcaccagcg cggcatcagg 180
gaaaacaccg gcctgactta gctacgtgcc gatctaggcc gaccatgtga tcggtatagc 240
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cagatggcta caaagacatt gtgcatgtat atttaggagt ttgtaatcat ctagaatggt 360
gcac 364

<210> 53700
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D1

<400> 53700

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 gatattctct acccaaagtg aattttgcgc atggttagtt tcacgacttc ggttgagaaa 180
 gcacactgcc cagaaaactc gtcattgttc gcctgtgtgc tgccaaaggt ggcaaacttg 240
 cttttgagtg cttaatgcc aatgccctcgt tcaatctaga tgttctctac ctgctgtaag 300
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<210> 53701
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D11

<400> 53701

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 gc 62

<210> 53702
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E12

<400> 53702

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 ggaagggtaa aaaaaaaaaa agaa 84

<210> 53703
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E8

<400> 53703

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tgctgcatta gatgttggtc aggatctagc atggagaaca aatgcaatgt tcctgaagtc 120
agttgataga ttcaatgacc ttgtggtgtc tgtttatgta actgctggtc ataccagatt 180
catgctgctt catgactcgc gtatcgagga tggaataaaa agcttttttc aagagggtcca 240
tgaactttac atcaggatat tcc 263

<210> 53704

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F3

<400> 53704

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tgtaattctg aaaacttgaa tggttatcaa gaagtacttc ataaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaagacaaa cgatctaaaa gaatacggtc ttcttttctca 240
atgcattcag acataataac tcttttatag tgtcaaccta aattcaattt actggcccat 300
tatttacaac tcattgact 320

<210> 53705

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G10

<400> 53705

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gatgggcgga atctccactc atgcttatcg cggtcctcct cctgctcgtt tgttacaccg 120
ggactcatgg cggtcgggtg actatggtgt cagccaagac ttgcaactcg aatagctttc 180
gctttaatgt accttgctac agggacgcca actgtgcaga cctttgtctg accgaagggt 240

tcaccgacgg cgtgtgcaac ggcttacacg accgctgctt ctgcaccaat gactg 295

<210> 53706
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G6

<400> 53706

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atcaccttac ctacctacat acatcgacga acctagccct aatctctgac aacgcataga 180

gcaacgacca cttaatctcc acattaacca gcaatctgtc acaagatcat atca 234

<210> 53707
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H12

<400> 53707

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tcagggagcc cgacaagtgc ctcgccaaga cgccagatt gttggcctat tgattgatcc 120

atcactccta gctactccta ctctggtcgc tgcctattga ttgatccatc aatcctgtta 180

attttcagaa gagtttcaga agagtcttaa taaaaa 216

<210> 53708
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H2

<400> 53708

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gaaaaggat 69

<210> 53709
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A10

<400> 53709

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aaagatatcc aacgcttccg gccacgcgtc cgt 93

<210> 53710
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A2

<400> 53710

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atgaggcttt tcttccaaaa gatcacccaa aaccctaaacc agattcaacg atggaatata 180
ggacaaaatt tataagagct aagtatgaga cacaagattt tttgaagcca agtttgcgca 240
tttcatcaag atcatctttt aaatctacca cttctgtgaa gagttagat agcaatttct 300
ctagcacttc aaggaaggat gtctttgaag atacaagaga atttggtgga gagttgaata 360
tcacactggt caaaggcacc aacttgccg ttagagacat gctaacaagt gatccatag 420
ttgttttaac gctcggaggg cagaaagttc aatcaacggt taa 463

<210> 53711
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A3

<400> 53711

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ggctgacacc tccaagaagg gcgagggcag gctccgggcg ggcggcgccg ccggaagcg 120
caagaaggcc gccgcgagcg gcaagcccaa gcgcccgcct tccgccttct tcgtcttcat 180

gtctgaattc aggcaggagt atcaggcgct gcaccctggc aacaagagcg ttgcgaccgt 240
gagcaaggca gcaggggaaa agtggcgtgc tatgtcagat caagagaagc aaccatatgt 300
ggaccaagct ggacagaaga agcaggacta tgagaagact aaggcaaact ttgataagaa 360
agagagcaca agctcaaag 379

<210> 53712
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A7

<400> 53712

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acaaaaaaaa aaaaaaaaaa aaaggagaaa atatcaaaaa atcaaaaagg aaaaaaaaaa 120
acaaaaaggt cgtcccttct atacatccca tacttacttc cccctccatc caacttctta 180
gcttttctat aagcactcct aaattcactt cactgcccac cttcttacia ctaatagact 240
tgcaaacct ttcttttacc caacttaact gcctttcaca aaatccccct tctaccacat 300
gtcttaatac ccaaacgcc cgaaccgatc acccttccca acaattcccc acccataatg 360
gccaatggta caacccttt 380

<210> 53713
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B1

<400> 53713

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caatggttcc gtatacatcc aaaaagaaa caagggggag attatttcag gtgccacaag 120
accagtatat gctctagagc cacatgacgt aggacgctat ttgcaagctg aaatcgacgt 180
aggcggcgaa atcgagtag caaagactgc tgggccagta gaccctgatg ctgggttggg 240
tgattatgtg gagacgctcg taaggaaacc tgaaactgaa ttcaatgttg ttgtgcttca 300
atccaatggc gtcgatcagc caaaagagtc ggttcattga cttaatgtcg ggaggctgcg 360

gatgaggctt actaaagggga agtcggtagt cgccaaggaa ttctattcct catcgatgca 420
gttatgtggt gtg 433

<210> 53714
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B12

<400> 53714

aaaaaaaaa aaaaaacaat aacaaatttt attaaaaaaaaa aaaaaaaaaa caaaaaaaag 60
aaggcttaat aaaaaaaaaa aaaaaacttt aacaacttca ttaaaatcca accttacttc 120
ctctttcatt ccaaatcata cctttcttat aaagccacct aatttcaatt cactgaccat 180
cttttaacaa cctcaaccac tgc 203

<210> 53715
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B6

<400> 53715

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tcatggagcc cgacaagtgc ctgcgaaga cggccagatt gttggcctat tgattgatcc 120
atcactccta gctactccta ctctggtcgc tgcctattga ttgatccatc aatcctgtta 180
attttcagaa gagtttcaga agagtcttaa taaaaa 216

<210> 53716
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C3

<400> 53716

aattcccggc tcgacgccac gcgtccgatg gaacagggat ttgtttggct tccaaatggt 60
ttgttgggtcc taaaatagtc agaatgacat gacatctgtg ctatagatat ggacctcggt 120

ggttttctcc acattaggaa agctagaaga gccttttgaa ctcagttttt ttgctaacag 180
 tggtgttatg gtgaaacaga gttttgtgtg tatgtaccaa caactaaaat gtaaacacga 240
 cattatcata gttgagtaca ggaataatta tctcttatat cttattgc 288

<210> 53717
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-D7
 <400> 53717

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 gttgccttgt gagcttctag taaataccaa tcgtctttgt atgttgtgtg gatggtggtt 120
 ggcaacgttg tttatttatg cgcaagctgc tgctggtttc gggatggaag gaaagacctg 180
 gtccctgaaa caagctgctg agagtgagcc tgtcagtgtg ttgtgtctgg cgtggtcaag 240
 aaccaaataca atgttggacc gaccgactga gagtttggag tgtgtatgtt ttgctattac 300
 tcttatctct agtagagtgt gggatatacct gggcagaatg tgtcccaaaa agttgggggc 360
 ctgtctgtgt actgtgtgcg atggacgcc taagtaaaaa aagggcangt gatggtcgtg 420
 ctccagggtt gtgttttgta ctctgttgta cttgaacc 459

<210> 53718
 <211> 127
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E1
 <400> 53718

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 gcgctgtaaa gtagtggttg tgtggtaaata tcagaatgtg taagttgaat ttatgttatt 120
 accaaaa 127

<210> 53719
 <211> 190

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-E4
 <400> 53719
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 cctcttagta tgtaaaagga gtggttggga catgtggtac tctctcctag aactttaatt 120
 tgagatttgt aacatgtgag agactattga gaataatatg tatggagtaa tatgcttcct 180
 tcttttaaaa 190

<210> 53720
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-E6
 <400> 53720
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 aatttcatct ggaaggcaaa cgcgtattgg aggttggtatg tggacatggc ctggctggca 120
 tttttgcggg tctcaagggg gctgacctga ttcatttcca agatttcaat gccgaggtgc 180
 ttaggtgctt gactatacca aatgtaaaag tcaatctttt caaggattca ccagaaggaa 240
 catgtacatg tccgattggt ggtttctttg ctggtgattg gagtgaaatg gataagctac 300
 tactttgcgg ggatgctgag caagacaaaa cagccagtgg tgatacagaa ggtaaaatgt 360
 gtaatgggta tgatatcatc ctgatggctg agactgttta cgcggtatct tgtcttccaa 420
 atctctacag gctcatcaag aagtgcttgc gc 452

<210> 53721
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E8
 <400> 53721
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gctagctgag gtcgacgatg gctggtntgc tgaacagcag gaagacgccg caggcggtgg 120
 tggccgtgct ggtggcgggc gcgctgctgg ctctgctcgc ttcggcgggc atcacctgcg 180
 ggcaggtggg gtcgtcgtcgc gcgccgtgca tcccgtaacg gacggggagg gccagcgcg 240
 tccccgcgtc gtgctgcagc ggcgtcaaga gcctcaacag cgcgggcgcg accagcgcg 300
 accgccaggc ggcgtgccgc tgcctcaaga gcctcgccaa cagcgtcaag agcgtcaaca 360
 tgggcaccgt cgccaccatc cccggcaagt gcggcgctctc cgtcggattc cccatcagca 420
 tgtccaccga ctgcaacang atcagctaag ttacgacga 459

<210> 53722
 <211> 315
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-E9
 <400> 53722

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaagc aagattaaaa aaatataaag agatacaaat 120
 aaaaaaaaaa atacatacaa cataataaac atacataaat aaataactaa atacaattaa 180
 ataacaaaaa attttacaac ttttaaaaact gctaaaacct tgaaactacc caacttaatc 240
 tcctagcact aaatccgcct tttaaaaaat actttaatct ccaaaaatct caccctatc 300
 tcctttaaaa acatt 315

<210> 53723
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-F3
 <400> 53723

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 tttcagaaac cactcttct gtttagctat tttgggcagt aagtcaagca gtgctttgta 180
 ttttgtaa ataggcattctt tatgttaata aatctgtata gaaacaaaat tggtcattca 240

ataatcaata gtattatcag aattacattt ctgtactaca acaattattt tatcaaacia 300
 gttaaaaaaac tatcttggga attttatcca acctattttt ttctaagtca tgtttaggaa 360
 ggtaggtttg taatttttac tattacaagc agttatacta attgctatta aatactactc 420
 aatttacatt tagcattctg tattcagtgc tg 452

<210> 53724
 <211> 457
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-F5

<400> 53724

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 gcctcctgct cggettccca cccctgctgc ctgcgttgca caccagggag gagctcctcc 120
 gaccgaccgg ccatgagcta ccaggctcct cctccgggca cctcagccta cccgccgccg 180
 ggcacggcct accctccgcc aggccagccg caggcgtacc cgccgccggc atacggcgcg 240
 ccgccacca tggccgccgg cgggtaccct ccccgccgc agcaggactc taagggcggc 300
 aacgacggct tctgaaagg atgcttgcc gctctctgct gctgctgcat gctcgacatg 360
 tgcttctgag ttcgctgca ggggctcagg gcacgngat ggcgcgccta gagtccagac 420
 cgatctccat catgcagtca ggcgaaaaac aatgcat 457

<210> 53725
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F6

<400> 53725

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 aaaaaaaaaa aaaaaaaaaa aaaagcaaaa tttaaaaaac aaaaaaggcc tacctacttc 120
 atccatccaa cttcatcta ccatccttcc aacatcaact ctctcatttt accccaccta 180
 aatcacaatt ctttcccct ccaattccca acactcacta ttcttaaaac cctatactta 240
 cccaacttaa tcatcttcca caacatacac ctttctccac cttaccaaatt ttctaacagc 300

ccctacttca tctcccttac taactacttc tccactctat tct

343

<210> 53726

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-F7

<400> 53726

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atttcaagac tggagctgag agaaaggact gtntcgataa caccatgggtg gcgtacaagg 120

ctgcccagga cattgctttg gctgagcttg ctccaactca ccctattagg cttggactgg 180

cactcaactt ctcagtgttc tactatgaga ttctcaactc acccgatcgc gcctgcagtc 240

ttgcaaagca ggcttttgac gaggccatct cggaactgga caccctgagc gaggagtcct 300

acaaggacag cactttgatc atgcagctcc ttcgtgataa cttgacccta tggacttctg 360

acatctcgga ggaccctgcg gaagagatca gggaggcgcc caagcacgac tcgagcgagg 420

ggcagtaaag ccggctttac gtgcctagaa gctagt 456

<210> 53727

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F8

<400> 53727

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ggaatggaat attatcgttt ttatagattt tgtaatctg ttagtatgtg tttggctgca 120

ctctaataca tcatatattt catccgtctc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaacaaac taataacaaa aaaaaaaaca aaaaaaaaaa cgctgcccct tttaaagaac 300

ccaagctaac gaccccgacc atgcaactta taacgtttta catggggccc ccaaattaa 360

atcacctg 368

<210> 53728
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-G1

 <400> 53728

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 ctagaggaga tccaggactc actaagcacc ataagatagt aatgaattta cttcacacta 120
 cagaataatt aattctaaga tggaaaaatg ggaatttaca ggacacagca gaataattcc 180
 aagatggaaa acgaatgtac cgtcagacct ctgctcatcg atagatatgt atacaagaaa 240
 caatatatat aattctcacg tcctcccgct tcccctccct ttctctcccg caccacctcc 300
 gtgtaatacg tagtgtactg tgtaccctat gtaagttaag gaatgctgca gattcagatt 360
 acgcatt 367

<210> 53729
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-G2

 <400> 53729

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 gcgcgcgcct gtcggcgccg actggtcaga tcgtgccggc gtaccggaac ctgctgtcgg 120
 gcaagtgcgc ggcggcgggc ggcggcgccg acgaccccg ggtggccaac aacgtgcgcg 180
 acgaggaccc gcgcgccgtc ggcggcgccct tcccgtcctt cctcgggaag ctgcgcaagg 240
 ccagggactt tctggacaac agctactacc acaacaacct ggcaaggatc gtcaccttca 300
 actccgactg gcaactgctc acggagaagg aggcgctggg gcacgtcaag gagtacgccg 360
 agaacggcac cctctgggac gaggac 386

<210> 53730
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G4

<400> 53730

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gcactctcct gtgctgacaa atggaccctg tccagctcaa gtgagccaca taatatatct 120
ttccattact taatacctga aggaagcata ctattagaca taccggtata tattattggt 180
cttagtcatc gcacaagact cttgtcaaca agaccaacaa caggatgagg actgccgtgc 240
atgctgcgct ttgcattgtg cttgtgataa tgtcttcaac actgtcatct tgcgaggacg 300
atgagaaggt atctatcgca tgtgacacag gatgcaatgc cgcgatctcc cgtctcaaat 360
gcttcctgat ggcctattct gaagggaaag tgttggtcag cagcaactgc gaaacg 416

<210> 53731

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-G6

<400> 53731

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ttttggctgc acaggatgat ggtggtggtg agtcattgga gcgtgtttat gagacgtcta 120
gatgcaatgg atgctggaac tgcagaaaag cgagctgctg aaattttatt tggctctgggt 180
tttgacaaac aaatgcaagc aaagaaaact aaagatttct ctggagggtg gcgtatgagg 240
attgcttttag caagagcact gtttatgaat ccaacaatcc ttttgcttga tgagcccaca 300
aaccatctag atcttgaggc ttgtgtctgg ttggaagaga cactgaagaa atttgaccgc 360
atacttggtg tcatatcaca ctcccaagat tntctaaatg gagtgtgtac taacattatc 420
catatgca 428

<210> 53732

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B10

<400> 53732

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 caaacatac aaaaaaaaaa aggaagggtt tataaaaaaa ggacgacgcc tatatacatc 120
 accaaccgt ctaccatata tgcgtttccc ttccttttct ccaactgtcc atgtccctac 180
 ttatcctacc cgccttacta ccaactcaaga tctcatcaat tcctttaatt tttccgcatt 240
 taataacttt tcgtctcaac ctccattccc taactttctt actaacgcta tcacttgcac 300
 catctcacac ttc 313

<210> 53733
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B12

<400> 53733

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 tggttgcttt ccatgattct tctagcatcc tttgttgctc atgcacgcac aacaagtggg 120
 cacaccaaag aggacagcaa tgctaggaac atgacgatga ccaagacgag ggcacgggc 180
 aacatacttg ttagccgtaa tgacgacggg ccatgctatc tagattccgg tcttaatgag 240
 tacgtctgca gaaagactaa taagtgctat aagagcttgg tgctctgcgt ggcgagttgt 300
 caaccatcat catgaattca tgatactgcg gagacatcat gatactgagg agacagacgg 360
 cgagagatga ggctagctag atgctgtttc accaaaatat tatgtaacac ccaaatac 417

<210> 53734
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C12

<400> 53734

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 ccgctaaaat taacaactct aggaacggtt actcaaaacta gcggctgacc agcatcatta 120
 cattcaccaa ctcttagact gccaacacaa atcctatctt acttacatcc aagactcaca 180
 ttaccgacct tttaatcatg attctgagct tcaacctgta aacacatatg aaaactat 238

<210> 53735
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-C4

 <400> 53735

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 aaaaaaaaca aaaaaaaaag aaagctattc aacacagagg acgccgaacc aagcaaaaca 120
 atactgtcac acaaggacgg ccgaccaagt gctggttctc gcactacgcc tccacggcgc 180
 tgaactggcc gggcgccctc cgggtgccgc ctcatcgctc tccgagtctc gcgcttcctg 240
 cccctgcttc ctgtgcttcc tgttcaccag ctccctccta gtcgcctccg accccgtgcg 300
 cgcgctccct gtcgtgtcgc cgatctccgc ccgcggctgc gttcccttgc tcgacgactt 360
 cc 362

<210> 53736
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-C7

 <400> 53736

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 gccacatgta tagtgccgga tgcccagatc gggagatcgt catccggact tcgggcgaga 120
 ctcgattgag caatttcctc ctttggcaga caacgtttag tcaattgcag aatccagatc 180
 ctttgtggcc cgagttctcc tttaggcacc ttgtttgggc tatcttgcag tatcagagag 240
 tttaccctgc tctggagcat aacagaaagt tggctaagaa gcagttgtga ttccatgtta 300
 tttgcaaaga ggtatcatga agggctatta acatcaaact tttccttctc aatttcccg 360
 taatgggaaa tgcaaagaag aacatactag catataacat tatgaataga tcaccatgta 420
 acttaagtgt gattgctacc gtaacctatg aacttaacca tgtaac 466

<210> 53737
 <211> 125

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-D3

 <400> 53737

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 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa acttaaaaaa actaaaaata aaaaaaaaaa 120
 catac 125

<210> 53738
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-E8

 <400> 53738

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 gctatccaga aaggtctcac ggaggacagc atgggatgga cgttgcagct aacttagcag 120
 cttttttcac atgatcgagc tctacaactc ttatttccgt tttctcgata agtctcactt 180
 ctatcaactt gttcttctgt tgaaacagag tacttttaaaa gggatcccca ataatagactt 240
 tccctgtgta ttgctgatat gttggcacta gatatttttg gaaactctat ttaaagcaca 300
 gtgttttgca ccaaaaaaaaa aaaaaanaaac aaaaataaat aa 342

<210> 53739
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-F12

 <400> 53739

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 aaaaaaaaaa aaaaaaaaaa agaatataa aaaaaatta aaacatcata aactgaaaaa 120
 aaaataaaaa ttaaaaaaaaa ttaatcaaaa taaaaaccaa aaaaaattta ataaactaaa 180
 aataatcaac aacaataaca ataaacaata aaactataac acatatttac aacctgaatg 240

cctttttcta ctccccactt attctgcacc ttaatctcct taaaaattct ttttt 295

<210> 53740
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-G8

<400> 53740

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gggaacactg cactagatgc agctttgaat gctcaatttt tgggtccagat tggatatttt 180
acagcagtgc cgatgataat ggggtttcatt ctggagctgg ggctgatgaa ggctgttttt 240
agttttatta caatgcagct ccagttctgt tcgggtgtttt tcaccttttc gcttggaaca 300
aggacacatt actttggtag aacaatcctt catggcgggtg caaagtatcg tgctactgga 360
agaggttntg ttgttcggca cataaaagt gctgaaaatt ataggctcta ttctcgaagt 420
cactttgtca aagcg 435

<210> 53741
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A2

<400> 53741

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gacccgcggc acctacaagg gtgatgctgc cgccgacacc gagagccttc acgtcaagga 120
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1. *What is the purpose of the study?*
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 3. *What is the research methodology?*
 4. *What are the results of the study?*
 5. *What are the conclusions of the study?*
 6. *What are the limitations of the study?*
 7. *What are the implications of the study?*
 8. *What are the future research directions?*
 9. *What are the contributions of the study?*
 10. *What are the key findings of the study?*
 11. *What are the main results of the study?*
 12. *What are the primary outcomes of the study?*
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 14. *What are the tertiary outcomes of the study?*
 15. *What are the quaternary outcomes of the study?*
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caataatcta ccacggcctt caaaaacggtt ggagattatt aatgggtactg ctgtaagcct    120
gttaacaaaag ttaatgcgta tgac                                     144
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<223> Clone ID: LIB3079-010-Q1-K1-E3

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gccctgtgga	tacggaagat	ccagctcccc	gtccttccga	ggccaatgtc	gccacgatca	180
gcagcatatt	gtcatacta	gcagctatac	gctgtgacce	tgacaaaaccg	agcttcatct	240
cagccttatg	acgacgtcta	ctctaactaa	ctgggtgacct	gagatccc		288

<223> Clone ID: LIB3079-010-Q1-K1-E9

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ctgaagatcc	tgctataatg	caagggggtta	tgtctatggg	gacgggtcctc	acactgaggt	120
caccagaaaa	tgcagcacgt	gcaatggaag	aaggctatgg	gacactgggt	atacagtcaa	180
tgcaaagggt	cccctcctcc	gtgcagactc	agaagcaagc	atgccttatg	attcgcaatc	240
ttgttgcccc	aaaccctgag	aataggatcg	tcttgcttaa	tgatggtgca	taaaagctta	300
ttagaaaggc	aatggcgctg	cacagaagct	gtaaagatgc	tgcttcgtct	gccttgaggg	360
acctgggcct	cgacaactac	aatgcataga	caccagtgac	cagtcacacc	atataaaatg	420

tgcgtcgagt tagtttgg

439

<210> 53771
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F12

<400> 53771

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gcggatttgt ccaatattct ggcggtgcat tatctgagga ggccataaag gtgctaaatg 120
gaagccagtt gggaggtcat agcataaggc tctcatgggg ccgtagccct gcaaacaagc 180
agcctcagca agagcagagc caatggagcg gtggtggcta ttatgggtat cccaaggat 240
actatccata tggctatgct cgccccctc aagatcctgc catgtacgcc tacgcagcat 300
atccagggtg tggaaattac catcaacagg caccacagca gccccgcca caacagtaat 360
gatgtcccgag gagtgatcat ttgcaagctg gtcgcaaagt 400

<210> 53772
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-010-Q1-K1-F3

<400> 53772

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ccatccacaa tagcctcata tcgaatctgt nagegtttct agactgccga ggaaaaagga 120
tccgtgcgcg gctgatctca ctactataag tatatcgcat tccgcgagtt acaaggacaa 180
ctgctcgatg tccttatgtt tgctgcttgg taataccgat ctgttcgcta taatcatcga 240
tcagcgtgat gtgaaccact gtttacattg ctgcggtact aataaa 286

<210> 53773
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G3

<400> 53773

attccctgct cgacccactc gtcctaaaaa aaaaaaaaaac aaaaaaaaaac taaacttta 60
cacaaaaata caaataaa 78

<210> 53774

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G4

<400> 53774

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aggaaatggt ggaccatttc caggaacagt ggtgtctttc agcccatgga taactactgt 120
tgctgctgta gttgatgacc gcatatacaa gaatcattta acactacgaa atggaaaact 180
tctctctggg cttggagtat cacctgcaac acatgggaat atgtcgttca gcttgatttc 240
tgcagctgat gctctattgg gttcatctgc aaccaatttc agtgcattag attgccagaa 300
gcctgaacta ttgaataaca ggaaagtcca cgggagaatt ctcatgcgtt gctattcctt 360
caattacatt tctggacaac ttcaataaaa 390

<210> 53775

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-H11

<400> 53775

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aactagtaga tacaactaaa gttagtgatg tgggtgtctgc aattggaccc tccactagac 120
tgttcagtct acaaagtccc acgaaccctc gtaagcaa at tactgacatt aatacaatct 180
cagagacagc gcattctcat ggtgctcttg atttggctga caacatcatc atgtatacag 240
tgctctcccg tcctatataa ctgggaactg atatcgtaac tcaactccgct accaaattta 300
tagccggaca tatagatctt attgctggaa ttattgcagt 340

<210> 53776
 <211> 101
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-H3

 <400> 53776

 attccccggt cgaccctc gtccgaaaaa aaaaaaaaaa aaaaaaaaaa aaaattttaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aatatttaaa a 101

<210> 53777
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-010-Q1-K1-H7

 <400> 53777

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 gttcaagttt tccgtaacct tgtccaatca tgggcatggg ggtgtggcca ttttggaaaa 120
 gtggccactt ttgtttatcc agccatttgt acaactggag gccatggttg attcaaagga 180
 ccggccgttg tttttcttcg g 201

<210> 53778
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-A11

 <400> 53778

 tataaaacaa gccagttttc ttggtgagca aggggagttc attgccagtg gaagtgatgg 60
 gggtagatgg ttcatatggg agaagagaac aggaaggctt attaaaatgc ttgcagggga 120
 cggagctgtt gtgaactgca tacagtctca tcccttcgac tgtgccgttg caacaagcgg 180
 aatcgataac acaataaagc tatggacacc cgatgcaa at gctacatcaa tggtttcttg 240
 acctgaactt gatgtattga gtgccataga gaataatcag cagaagttat gtcggaaccg 300
 tcactttgta ctatgcatga gttttcagaa ggtttcgagt gtgcccagag ctgatttact 360

atcgctggag ctgcttgaag aaaagggtaa tacttggag aatgatatca

410

<210> 53779
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-A5

<400> 53779

gtcgaccac gcggccggtg ctgagtggg ggaggttcat ttacgcatct ttgctgcgac 60
ttctcgtctg aaaatgtgtc ctaagcatgt cagcaagtaa ggatgttctc gcgcttgcct 120
cacttgaggt tgacctctca agcattgagc ctggaaccac ggtgacggtg aagtggcgtg 180
gcaagccggt cttcataagg cggaggacag aggatgatat caagttggcc aacagtgttg 240
acgtcgcac cctccgncac ccagagcaag atgcagagcg cgtcaagaac cccgaatggc 300
tggtcgtcat tgnngtctgc actcacctgn gctgcatccc gctccctaataat gcangagact 360
ntggtggctg gttctgcccc tgcca 385

<210> 53780
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C1

<400> 53780

ggtttctgca aaaaaaaaaa aaaaaaaaaat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
ggaaaaatga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aggggcgggc cttttaagg atccaagttt acttcccctt gcttccaacg 180
tcataccttt tttttagggt cccctaaatt caatt 215

<210> 53781
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G2

<400> 53781

agaactttgt acatgcgttg gtggatggtg gtgtaacata gtggctgcc acaagtcatg 60
ctcatgcaaa ccgatgaatc tatctctgta tcatcgatct cggttgcttg ctagtccaga 120
ctccagacat ggctatatat atatagctgg tgctaataaa taggagtata atcgtcatat 180
cgatcggttg cgtgtggaat gccaatcatg tgtgtaatct gttggcaa at acaaacctc 240
tgttctctcc aaaaaaaaaa aaaaaagaaa aagaatataa aaccatataa agac 294

<210> 53782
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G4

<400> 53782
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tagctggctc ccccgctgct ccatcgaccc gcttcgcgct tcatgtttac tacttgcgat 120
actgttgta cttgtgattg atgatgataa aagccacggc ctgtgttact actgctgtaa 180
caagtccgac agaagaacca tccaatgcag gccacgaag gggatccagg ctgcgccggc 240
ctagtactcg gcttagggag tttgtgtgag ttgtaattga gatataaggg aatattgatt 300
agggaataa 308

<210> 53783
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H4

<400> 53783
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gaggcggacg cgcacagtg cgtgaacgcg cgcgcggacg acttcatcaa caagttcagg 120
cagcagctac agctgcagcg actgaactcg ctgctcaact acaaggagat gctcaaccgc 180
ggcggtgaca agcagtagcc ggagcgtgca aggcggaggg agaagggtag ctagctgtag 240
gatccaatcc aaaaccatac tgaaaaaaaa atcgatcttt ggtccatcaa ccactagacc 300
tcgagtgtgg attatgcagt gttgttctta ttagcatcgt tatgtaagaa tcgctatatt 360

ttcagcttgt taatttcaat tggtttgtgt tgctggc

397

<210> 53784
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H6

<400> 53784

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gggatcctag cttacgtact cgtccatgct acgtcataac tcttctatag tgccacctaa 120
attcaata 128

<210> 53785
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A5

<400> 53785

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gaagatggac acgaaattgg atgtgctcag tcatacgcaa agaacatggg actttatgga 120
caaagagcag gatgcctgag tatttttgtgt gaggatgaga tgcaagcagt tgctgtcaag 180
agccaactgc aacagatcgc aagaccaatg tacagcaacc cacctgttca tgggtgactg 240
gttgtttcta taatcctcag tgatccagaa ttgaagagtt tgtgggttaa agaagtcaag 300
ggtatggctg atcgtatcat tggaatgcgg aaagcactta atgaaaatct tgaaaagcta 360
ggttcacctt tggcatggga tca 383

<210> 53786
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C10

<400> 53786

aacaaacata acaacaaaac acgttttcaa tctaacacat atacaaaagg tccgcggctc 60

05344560-05359

tagacgatcc acgcttacgt acgcctccat gcgacgtcat acatcttcta tactgtgacc 120
taaattcaat t 131

<210> 53787
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C2

<400> 53787

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accggcgcgcg cgggcgggcg taccatggcg gtcgggaaga acaagaggat ctccaaggga 120
aagaaggggtg gtaagaaaaa gaccgtcgat cccttctcta agaaggactg gtatgacatc 180
aaggcccat cggtcttcag tgtgcgcaac attgggaaga ctctcgtgtc caggacacag 240
ggtaccagga ttgcctctga tgggtctgaag cacagagtct ttgagggttg tctagc 296

<210> 53788
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C3

<400> 53788

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acatcccat ccccatcttc atctgcagca agggggtcta ggggtcttta tggaagcagg 120
gccttctttt aagtttctaa tgcaaagtag tacactagct cgttactatc tccacatac 180
atatacatgg ttccagggtt atcagatata ttctggcatg taatcacata ctttctgtct 240
ccataatatg cttctaggac tcaactctgg tattgctatt agtggttatgc tttgtagaa 300
gataataatt tcatctcata gtaatcccat gtactaatac atacccatga aatataatgt 360
catgaaatca gttctgactc g 381

<210> 53789
<211> 327
<212> DNA
<213> Zea mays

aaaatggtca tcaatctgta caccaggatc atagccagga ggtatccgga gatgcgcac 300
aactgtgtgc gaactggatt t 321

<210> 53792
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-012-Q1-K1-E3

<400> 53792

ggtccggaat tcccggggcg acgccacgcg tccgccacgg ccacctcgcc tactcccaca 60
ccaaccaggc gctcctccgc cccaggtcgt gcgcggccaa ggacgaggtg ttctgcctgt 120
tcgagggggg gctggacaac ctgggtcgtc tgagccagca gcacgggctg tcaagcaagg 180
gcgccaacga ggtgctcctc gtcacgcagg cctacaagac gctgcgcgac cgcgcgccct 240
accgggccag cttcatgctc ggccagctca ccggctccta cgccttcgtc ctcttcgaca 300
agtccaccaa ctccctgcta gtcgcatccg accccgaggg caaggtgccg ctcttctggg 360
gatcaccgnc gacngctgcg tcgccttctt cgacgacatc gacatgctc 409

<210> 53793
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F10

<400> 53793

aaaaaaaaa aaaaaaaaaa aaataaaaaa taaaaaaaaa aaaaaaaaaa aaaagagaaa 60
agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggggcggc cgtttttaag gacccaagtt tacttcccct tccttgcaac ttcataactt 180
tttttttagg tcacctaaat taaattcatt ggccgtcttt taacaacgtc gtaactggaa 240
aaaccttggc tttaaccaat ttaatcgctt tgaagaaaat ccccttttcc ccagttggct 300
taataccaaa aaggcccga aagatcgctt ttccaaacag ttgcccaccc taaatggcaa 360
atggaacccc cctctgaacg gccattaaa cccgcgggtt tttggg 406

<210> 53794
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-F12

 <400> 53794

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 aaggaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaggc cgtccgtttt acaggttcca 120
 atcttccttc ctccagcatg caacgtctta cttcttctat agtgacacca aatttcaatt 180

<210> 53795
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-012-Q1-K1-F8

 <400> 53795

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 aatcgctgct gtccaaggcg gcggggcggg ccatcaacc ggtgcacggc gcggtggggc 120
 tgcttgggca cggggaactg gcacctctgc caggccgccc tgcacaccgt gctgcggggc 180
 ggcgccatcg gcccgtgccc ggagcttggc gccgggacgg gccacctgta cgggcccccc 240
 gncgncaccg acaagcgcg cggcggtctgg tccaccttct ccacggcgaa gcgggcgcgg 300
 aaggccgncg ncggtgccgg ggcgccgccc gcggcgagg cgggcgcgta ctgcgacct 359

<210> 53796
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-F9

 <400> 53796

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 gctttcctga cgttcgatgg ggctctgaac gttgatgtga acgagttcca gaccatcctg 120
 gtgccctacc ggaggatcca cttcatgctt tcgtactacg ctccactcat ttctgctgag 180

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-012-Q1-K1-G9
 <400> 53802
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 ttacccgatt gtgtgtgtac tagcacatct cttcatcatg ggagatatgt taccacaata 120
 cttgttgcac actgtgctaa gtggtcagga gaaccttgta ttaattaatt atcctttcat 180
 tgtctcaaag taaaaatttc ccttgcgcta aaa 213

<210> 53803
 <211> 63
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-012-Q1-K1-H4
 <400> 53803
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 agg 63

<210> 53804
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-012-Q1-K1-H5
 <400> 53804
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 ctttctagca tgagaacctg agctgtgagg tgtgtggtac aggattttcc tccgtcgctt 120
 cttctatctc cattcttact tggcttgctg agttgcccgg cgagcctgac gaatcgatct 180
 gagcagcacc ttgctggt 198

<210> 53805
 <211> 304
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-012-Q1-K1-H7

<400> 53805

cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa aggaaagaaa 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aagggggggc cgtttttaaag gatccaagtt tacgtacgcg 180

ggcatgcaac gtaaaagctt tttaataggg gcacccaaat taaatgaacg ggccgctcgtt 240

taaaaacgtc gggactggaa aaaccctggg gttaccaaac taaatggctt agaagaaaat 300

cccc 304

<210> 53806

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A11

<400> 53806

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taaataaaaa aaaaaaaaaa aaaaaaaaaa gagaaggaaa aaaaaaaaaa aaaaaagggc 120

ggacacttct agaggatcca cgcttactta cgcgtgcatg caacctcaaa gctttactat 180

agtgttacct aaattcaata t 201

<210> 53807

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-A12

<400> 53807

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gcgcgggtgc tggagcagct gctcgacgac gcgccgttcc cgcgccggat gcgcttcttc 120

atgctgcgga gcctcccctt cgtgccgccg cctctgcccc cgccgccgcc gccgcacgcc 180

ctccacgtta ccacccgagt ctgattattg gtcattttt tctcaggggt ttcagcctac 240

tgcccgccat ggccgcccac ccactagcct gcgcttgaag cagctagtag tagatactgt 300

aggttgacca gtgatccacg gtgtgtttct cgctttcctt ttgtctgttg atttctattg 360
gctatactac acggtgctgt aaaggatcaa ttagttctgc ctttgaggcc ctcatttggt 420
ggtaatatatt ttgattacat ggaccatgga aaaaacttnt ccttgac 467

<210> 53808
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A4

<400> 53808

aaaaaaaaa aaaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 60
gtg 63

<210> 53809
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B1

<400> 53809

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cgggatcagc ggcgcgccgc acgacaacaa catcatgctc tggaaacgccg tcatattcgg 120
gccggatgat acgccgtggg acggtggcac gttcaagctt accttgcagt ttacagaaga 180
ttacccaaac aagccaccaa ctgttcgatt tgtctctagg atgtttcatc caaatatata 240
tgctgatgga agcatctgtt tggatatacct acagaaccag tggagtccta tatatgatgt 300
tgctgcaatt ttaacttcta tccagtcctt gctgtgtgat ccaaaccxaa actcccctgc 360
aaactcagaa gcagcaagac tgttcagcga gaacaaagcg gagtacaacc gcaaagtccg 420
tgagatcgtg gagcagagct ggaca 445

<210> 53810
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C10

<400> 53810

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cgcaaggtga gcgatgcggc ggcgggcggc ggcgaggtgg aggagaacat ggcggcgtgg 180

ctggttgcca agaacaccct caagatcatg cccttcaagc tcccgcccggt cggcccttat 240

gatgtccgcg tgcgcagtga ggcagtgggg atttgcgga gcgatgtgca ctacctcaag 300

gagatgcgca tcgcgcactt cgtggtgaaa gaaccgatgg tgatcgggca cgagtgcgcg 360

ggcgtggt 368

<210> 53811

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C4

<400> 53811

aaaaaaaaa aaaaaaaaaa aaaaaattaa ttaaaaaaaaa aaaaaaaaaa aaaacaaaga 60

aaggtttatt atccaagctt acaaacacaa tcatgcaaca tgctatctac ttccatatac 120

tcacctaaat ccaaattact gtccgttgat ttacaacttc aaacctggga aaacctatc 180

cttaccacac 190

<210> 53812

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D11

<400> 53812

ggaggatggt gaccaggagg atcggaagaa gaagaagaaa aagaacaagg aaagcaagga 60

ggctcctgct ggtgaagggtg atggtgagaa gaaaaagaaa aagaagtcta aggaggtcga 120

ggaagagcct gttgtggctg ctgcttcaga agttaagaag aagaaaaaga agtctgacgc 180

tgatggtgag gatgtcgcaa tgcaaacga agaatacagg aagaagaga agaaaa 236

<210> 53813

<211> 305
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-E10

 <400> 53813

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 aggatcgccc tggggagcca ccaggaggtg taccacccgg gcgccctcaa ggcggcgttc 120
 gctgagttca tctccaccct catcttcgtc ttcgccggcc agggctccgg catggccttc 180
 agcaagctga ccggcggcgg cccgacgacc ccggcgggcc tgatcgcggc ggcggtggcg 240
 cacgcgttcg cgctgttcgt ggcggtgtcg gtgggcgcga acatctncgg cgggcacgtg 300
 aaccc 305

<210> 53814
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-E6

 <400> 53814

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 agtttgaggg acgaattcta cacggtttac ttcaacgtca gggctctgagt cctgacgctt 120
 acacttgcag tagaagtaat acagaataaa taatgtgcgc gacctttttc ttctcataca 180
 ctgtagctta gaacagccaa tgaagaagca attgggttgt ttgaacttgt tatgcacgcg 240
 ggagtattca ctttgtgtga aaccacttgt tatgcaatac caaacgagtc ctggctgcta 300
 aaa 303

<210> 53815
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-E8

 <400> 53815

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tcctgcacta gcagcttgcg cgccatgcag taacggcggg cgtgtgggtt attacaaagg 120
gcaaatacaa atcgagttgc tcaaactcaa tactcctact agtaaaagta atgatgagat 180
agatttgata gatgggtact cgaatatgct acagtacaat taatgcatct caggcgatca 240
agcagtaatt aaaccgaaat taatttaagc atcccctctt tgatcgaaaa acagaatatg 300
atgatataaa aaaaaagaat g 321

<210> 53816
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F7

<400> 53816

ctgcaaaaaa aaaaaaaaaa aaaaaattta aaaaaaaaaa aaaatataaa aaagaaaaga 60
gaaaaaaaaa aaaaaaaaag a 81

<210> 53817
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H12

<400> 53817

aagaaaaaaa aaaaaaaaaa aaaaaattta aaattaaaaa aaaaaaaaaa aaaaaaaaga 60
aaaagt 66

<210> 53818
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H4

<400> 53818

aagcaagcag ctaaaaaaa ccgtatcgtc tcgcctgttc agtttccttc tcctcttgcc 60
ggagccccgg ttgccgacca ggttccaccg ttccagagta gccaagcgaa tcccgtgtct 120
ggttcgcgcg atggcggagg agcagtccaa cccccagcac cagcaagcgg aggagagggg 180

ggttatggtg gagcagcagc agccgaggag ggccccgaag ctgaggtacc tggacttcgt 240
ccaggtggcg gctgccagg ccgcggtgtg cctcgctggg ctctacggcc tcgccaagga 300
ccacgccggc ccgctccgtc ccagcgttga cgccgtcgag tctgccgtca agggc 355

<210>	53819
<211>	473
<212>	DNA
<213>	Zea mays

cgggtcggat	tcccggggtcg	acnacgcgtc	cgcgcacgcg	tccggccaat	tcccaagctg	60
ggagtggttc	atcaattaat	gagcggacga	attctggggtt	ttctcgcggt	tcatacagagg	120
ctggggttaga	tgaagatcag	tcctcaaccg	gtaagagtgg	ggactcatca	ttttttgctg	180
gtttcttgaa	gaagggtttc	aaggaccttt	ctttattaaa	taagtccatg	gatagcgtta	240
aggtttcaat	taatgggtcat	ccaatctctg	aaagagccct	taagaaggca	gagaagaaaag	300
ctggtcctgt	tgaccaggt	tcataattggt	acgactaccg	tgctgggtttt	tgggggtgtca	360
tgggacgaga	atgtatcggc	attgtccctc	cattttattag	agaatntaat	tatccgatgg	420
ccagaaattg	tgcccgtggn	gattctgggtg	tttttgtcaa	tggcagagaa	ctg	473

tctgcctatg tatttactat actaccttgg ccttgtatat ccttttgatg taagcgcagc 360
 tggatgctga accccccgga ggctgttagg gacaattaca aaccgtcata atttggccca 420
 gata 424

<210> 53821
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-014-Q1-K1-B10

<400> 53821

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 ngcggatgatg aagagcagca caatcgtcgc gcttctgttg gctgttgcca ttctgtcctc 120
 gctgtctcca tgctacgaag cgggcgggtg catcgggaaa cccaagaagt caccgccgcc 180
 gccgagaagg ccatacctct cgtcctattc cgaggaccac cagaactgcc gcttgatctg 240
 tagctcgaag ggtttcaagg acggtgggtg gtgtgacgaa agcgtcgagc acaaagtgtg 300
 ctgctgctcc cattagaaat ataatatcgt atgttatgtt gatgcatata tatgcattat 360
 ccatctacct ggggtggtgca aaattctgaa ataaatctac ctgtgtggtg caaaattctt 420
 aacc 424

<210> 53822
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B9

<400> 53822

aaaaaaaaa aaaaaaaaaa aaaaaattta aaaaaaaaaa aaaaaaaaaa aaaggaaagg 60
 aaagactgcc gatctataag catccaaact tacatatcgc gtccatccaa cattcataat 120
 atattcaatc gagaaacact aaatcaaata cgattggcac gtcattttac aacgcacgca 180
 ctggcgaaaa ccaactggcag tatacccgaa cttacattgc ctttcaccac tattcccctt 240
 tcgccag 247

53821-53822

<210> 53823
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-E12

 <400> 53823

 ccgggtcgac ccacgcgtgc gcggaacgct gggccctagc attatagctt ctcgtcaaca 60
 cacctaaatc tgcggcccg ctagagaaga tacgatctct atgcagatta gctgcagcga 120
 tatatataga tggatgaatc gtgcaagcgg ttgaactatg gtgctggaat ctgtaatata 180
 tataagcgga tcatccaaag tgcaaaacat ataagttttg cattgccaaa aaaaaaaaaat 240
 taaaaaaaaa aaatattaaa taataaaaaat aaaataaaaa 280

<210> 53824
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-F10

 <400> 53824

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 acttgtgcta ggaaaccttg ctgcctactc tcagcaacag cagtttcttc cattcaacca 120
 actggctgca ttgaactctg ctgcttattt gcaacaacaa ctaccattca gtcagctagc 180
 tgctgcctac ccccagcaat ttcttccatt caaccaactg gcagcattga actctgctgc 240
 ttattttaca cagcaacagc taccaccatt cagccagcta gctgatgtga gccctgttgc 300
 cttcttgaca caacaacagt tgttgccgat ctacctgcac gctgcgccta aagcttgcac 360
 cctttttaca ctgcaaca 378

<210> 53825
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-H10

 <400> 53825

 tccgggtcgg aattcccggc tcgacccacg cgttcgccac gcgcccggtc ctcagcgacg 60

gtccggggccc aagttctctg gaaagggacg cctgggaggg tgagagcccc gtccggggccc 120
gccctgtcgc accacgaggg gccgtcaacg agtcggggtg tttgggaatg caccctaaatc 180
gggcggtaaa ctccgtccaa ggctaaatac agacgaggag acactctaaa ctcaaacaaa 240
tacatatatt gtcggcatta gctcttacct ttttcaccca tgatgacgaa gtgccagaag 300
cgcgcgagca tccaaggact ttggctcctt tccatgggtc ttctagcgtc gtcctctctt 360
gtctgtgcaa gcatggcggt agatgggcaa accaaagaag acatcaacgc aacgagtg 418

<210> 53826
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A5

<400> 53826

taccggttcg gaattcccgg ctgcacgcca cgcgctccgc cagaggcagc aaagagaagc 60
catattacag ctgcacagga gaggacgagc gcaggggcca agaaagcacc gcccggtccc 120
gtctgtcggg atgggtggcg cgatcgcggt ggcgtcggcg gggctcggga tgctggcggg 180
cgtggccatg gccaacaggt cgttgctcgtc gtcgtcgtgc gacggcgccg cgcagtggac 240
gtccggggggc ccg 253

<210> 53827
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C10

<400> 53827

aattcccggg tcgagccacg cgtccgcaga aaaagggag acattcactc tttcaagatt 60
cttttctca tcggtatcta gggaccccgg taaacatagt gtttgatggc accattcctc 120
tactaaatgg gggtgaggca ttgaaggaac aagtggccat ggatccctgg cgggtctccc 180
agtcccattt gacgatgacc acatcttctt catctctaga ctcaagctca ccagaatcaa 240
tgaagcggat gcgggaaagt ggggatgaaa ttccaatcac aagggaact gattgcctac 300
aaagtggaaa gctctgtgtg cagctgaaaa tgttcaagca cagagatgga gtgaatgccg 360

acgcaactaa tgccatTTTT cgctgacgaa aacaaaaactt cgcttgggtct tcatattgta 420
 caaagtaaca aagaaacatg acttgtttgc 450

<210> 53828
 <211> 148
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C12

<400> 53828

taccggctct cggaattccc gggctcgacg ccacgcccga tccgaattgg ggatagccta 60
 ccaagctnnt gtatgcaagt ctttgcgcat tagnatnngg gaagaaaaag gggaagtcag 120
 gggggcaatg cgacagcann natctgga 148

<210> 53829
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C3

<400> 53829

ggaattcccg ggtcgtaccc acgcagtcg agcttaccag atactcaagg attaattgatc 60
 tctatcaact ctcttggnna ggggcccaag tgacagggag actgtagtct tgagattcaa 120
 ggccaatgca gatgcctgca ctactaaag gcgaacttaa ataggatact cttgcatact 180
 cacaactggg cagcctcctg gataagaaat caacgtagat acctgactcg tgactacctt 240
 catgagncgc gaaagaagca aaggagtatg gccttattga tggagtaatc atgaatcccc 300
 tcaaggccct tcaaccactt ccagcttcca gttagtcatg aagtgtgcta gaactccgtc 360
 aaacattttt gttgtatcaa tgtgtctgtt ggaaaccctg gctacgtaat attctacgtn 420
 caaatgca 428

<210> 53830
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D11

<400> 53830

tactgccgct gcagcattgt catccccagc aagtacatct gccaaaggctc cagatcctgc 60
tcttgacact gcgcccgaat cggttctccc acctctatcc gaagatgagc agtggaaatct 120
gtacaaatgg attctggaag aggagcggaa gatcaaacca ccaacgccac tgagaagaag 180
aagatcgacg aggagaaagc tcttctcaag gagataattc gggacaaatc tctccctcgt 240
ttgtgatggt tacatcggt gtccttctga tcttgatttt ttttcttctc tctccacctg 300
cagtccattg aggacaacat ctgaaactat gtgccctggt agttagcaaa accgtagca 360
tttctttgca ctatcacatc tcttcatttg acaataagaa ggtcgagttg ttttgctctg 420

<210> 53831

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D12

<400> 53831

aaaaaaaaa aaaaaaaaaa aaaaaaatTT aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60
aaaaaaaagga 70

<210> 53832

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E1

<400> 53832

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aggatgagct ttatctgaac gtattggtcg aatatgtgcc ctagacagtt catccagtcg 120
tgaagcatca caacaagatg aaccaacgca tgccacttat ttatgtgaag ctgtatatgt 180
accatatatg tatggcattt gcttacattc atggcactat tgctgactgc cacagagata 240
ttaagccaca aaaccttttg gtgaaccac acatctacca gcttaaacta tgtgactt 298

<210> 53833
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E11

<400> 53833

ggcgtgtcta tgcacacgca aacgcactta caagggcgag acgctctatg aggatccaag 60
cgttacgtag cgcacatgcac acgacgatga tagcctcttc tatcagtgac acactaaatt 120
caatat 126

<210> 53834
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E12

<400> 53834

accggccccg aattccgggt cggccacgag tcgccacgag tcgtcctcgg ccatcgcttc 60
tcagctaact gggagcactg ggggaggaca tcgagccggc tcgctgaccc cggcgtgacc 120
gacccgtcgg tgcgcgagggc ggcgcggatc ctccgcctga ccccggtcgg cggtctggcc 180
gctcgagtgc tccggggggc actggcggca tcgcacccgc atttgccaa caccaagtcc 240
tggcgtatcg tacc 254

<210> 53835
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E5

<400> 53835

taccggtctc gaattcccg ctcgagccac gcagtcgca caggtattgc tactatcgtc 60
tactttctac atcttttagct taccacttat gacatagtca catttataga cttgtcatcg 120
gttacaattc acatactaga atcatgttag ctctactacc tattcttggt aaataattct 180
gacccctttc tacacataat catcacttct gagttctata ctgttacaat gttcgtatac 240
gctaaattca ctttattcac atataatttc cctaaacttt 280

<210> 53836
 <211> 157
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-E9

 <400> 53836

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 aaaaaaaaaa aaaagggccg ccctttttaa ggatccaagc ttacctaccc gtgcattcaa 120
 cgtcatagct tttttatagg ggcacctaaa ttcaatt 157

<210> 53837
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-H10

 <400> 53837

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 cagcaccatc cagacgatgg atgcgtgagc ttatgggcgt aagacctggc tcaaggctcc 120
 tacataccag acagacaatg tgccgtatgt gtcagatgaa cctcaaagcg ataagtgggc 180
 tagggttcta tcagatgcca cattcgacgt accaacgaat cctgacatcc tacttaatgc 240
 gttcgactca gctgcaaacg ttcaaccgga gaaggtaaca gacatatgga atctcaggag 300
 aatactcaac acgtcttggc ataccatcaa aatccagaga tcttcgtgcg tcgaacgatac 360
 taagctgtga aattaagtac gcacttgacc acttggataa agcacactta c 411

<210> 53838
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-H3

 <400> 53838

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cgtggacgag ggcgaggaga gcctgcacgc gctcaactgg tgcctcgcca acgtcgtctc 180
 cccggcagga ggcgacacgc tgggtgctcgt ccacgcccgc cgcccgcgcc cggctctacgc 240
 cgccatggac agcgcagggg acatgatgac ctcgacgtg ctggcgagcg ttgagaggca 300
 cgccaacgcg gtctcggcgg cggcggtcga caaggccaag cgcgtctgcg ccgaccaccc 360
 gcacgtcaag gtggagacga cgggtggagag cggtgacccg cgggacgtca tctgcgacgc 420
 agccaacaag at 432

<210> 53839
 <211> 54
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H7

<400> 53839

accggttctc aattcccgt cgaccactc gtcccaaaaa aaaactataa caaa 54

<210> 53840
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A10

<400> 53840

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 gggatatgga agcttgatca tctttcctta tggcgcgga caatagcatc acaatcaccg 120
 cgcttctatt gtctgatgcc attctgtcct cactgtctac atgctacgaa gccggcgtct 180
 gcatcacgaa acccaagatg tcaccgccgt ctccgagaag gccatacttc tcgtcctatt 240
 ccgaggacca ccagaactgc ctcttgatct gtacctccac gggctctcaag gacggtagct 300
 gatgtaacta aagcgtgtag cacaaaatga gctgctcgat ccattagata tataatagcc 360
 tatgatacgt agatgcatat atatatgcat cgtccatcta catgagt 407

<210> 53841
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A11

<400> 53841

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aggaaaaaga aaaaaaaaaa aaaaaaaaaa gggccgccgt tctagagggt ccaagcttac 120
gtaccctgc atgcaacctc atagctcttt tattgggaca cctaaattca att 173

<210> 53842

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-A9

<400> 53842

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tctacttaaa aggggacggg ggagcacctt agatggtcgg aacgggaaac attctctggc 120
agtttgacaa attgtagttc tgcacctct ttttttttgg tagtttataa gaaacacttt 180
aatattatcat catgtacttt taacaacact tggggtatgg taagtgcatt tggtgctg 238

<210> 53843

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B1

<400> 53843

aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggtcggacg atatagagga 60
tcggagctat catacgcgtg cgtgcataca tcatagtctt tctaataagag tcacctaaat 120
ataactcact gaccttaaat gc 142

<210> 53844

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B10

<400> 53844

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ccgtggccaa tgcaaacaat tgttttgtgg gagcggcggc cgtaagtgtg ttgtcagtgt 120
gagagtgggtg atgcgatcat gatccttttt acctagagta gctccccctt gtgttagcct 180
gaacgatgtt ttgcaagccg aatgttccga actctaggat tatttggatt acaaaactta 240
catattccat cctcaaaaaa aaaatagaat atgaaaaaat aaaacaaaca ttgggcaatc 300
gttctagagg atccaaacta tctacgcgt ttatgctaca tcatagctct tctatggggt 360
cacataaatt aaatttactg gccattgctt t 391

<210> 53845

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-B11

<400> 53845

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agcgagtttc aagagttgta cacataagat ggcaacagag cagttattca aacagataag 120
aacagtagca ggcaggagta caattgtaca agtactagta acaaaaaaaaa acgatctgtg 180
acaaagacca aattgattga ttcatacataa tttcggtagg ccgcaactta ttttgagaca 240
ccgtcgacat caagtaggtg cagtaactct tagtcctaac tccagcttac ttcttcatct 300
ccgcagaggc tcggctgcat aagctgatct ttccctcatg cagcagcttt cgacgcaatc 360
attcctgtct tccgggcgta ggcaaagatc cctcccgnt caattaca 408

<210> 53846

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B3

<400> 53846

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cagtaaagcg aaactgagtg gaatgtcagc aatcaaagaa catccggtag cggcctttca 120

tctcaccaga ttagagctgc aacccttcaa tggtgtactt gtcctgaatg tggtaagggt 180
 caattacgcc cgctgtgaaa cagaacggaa cagagcagat tttacccgta ttgctagcta 240
 gagtgatttg gcatgatgta ctcatcatatc gtctgaagat tttactggga aaaaaagtac 300
 aaacttttcc ggtggaaaag aacctaataa 329

<210> 53847

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B5

<400> 53847

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 actatctcta cgctcttatg gaagctgggt caggtaaact catagctgcg ttgaacagca 120
 gcacattcca cgagctgctc acatctgatg gcattctatc cttactgtat acatgctaca 180
 acaccagcat gtgcattctc aaaaccccag aatctaccta caacaccgag aaagctatac 240
 ttatcacctt atttctaggt ccatcataac tgccgcttga cctaactcat ttagagacac 300
 aatgaccatc aattatgtgc cgaaactctt aatcataact ccagctgact ttttcattaa 360
 caatattatt tcgtttctta agctgatcct ta 392

<210> 53848

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B9

<400> 53848

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 agaaaaaaaa aaaaaggcaa ataatatagg gaaaaggaaa attaaatacg cgagcattcc 120
 acaacatctc gtgctctatt gtgttaccgt aaattgaatc aacttgccg tcatgttaca 180
 acgactacta ctgcgaaatc cttgacatga cccaaattca tcgcctggac acaaattccg 240
 atgcttatat ctgtcgtaat gtcaatgatg ctggaat 277

<210> 53849
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C1

 <400> 53849

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagga 60

 aaagg 65

<210> 53850
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C6

 <400> 53850

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 aatagcttaa ttatgaacca acctataaat acatttatct ttttagaaca aaacaaaatt 120

 acatacacat aaatgtcatc ctatatctat tatataagct cacctaaact taatttattg 180

 tccatatttt tacaacattt ttacttgaat atccttgact ttaccaaatt taatatcttt 240

 tcacatatta atctttttta catttttaatt tatattt 277

<210> 53851
 <211> 52
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-E1

 <400> 53851

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 52

<210> 53852
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-F12

 <400> 53852

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ccgagagagg gaccgggcag aatcccacgg ctcggaacga cttcgagttg gcatgggttg 120
tgcgcgagg catcggtga catcacatag acaatgctga aatgctgttg ctagtgctct 180
gtgctagcaa cctgaatggg gaccaagtgg caaccatatg ttttcacca atagggagat 240
ggccctaccg gtgtcaccgg aagacgtctc tggatctaca agcctggcct tcatgggtta 300
catgtacatg cactgggaga caccaccaat ggatgcatgt caacttgacc aactacact 360
actgctagca atgagcatcc ggcaccatac gatgagaacc gccatgctgg tgatcatggc 420
aacgagacag cttgagcata tggagctgct tgtatc 456

<210> 53853
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G3

<400> 53853

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acacgtcaac tcttacatat atatatgtat gtatgcataa tgaattacct ggtctgcttt 120
ccgcaaaaaa ggacgccctt tgttgtagat gtacatgatg ctgtaccctt agttttcctg 180
aagtgcagac cagagaagag aacattgaca ttagattgta gctgctaagc tgtatggtaa 240
ttacagtttt ctttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa 300
aataataaaa 310

<210> 53854
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H1

<400> 53854

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ggctgggtcc gcgctggtgg agtactacga ccaccagcaa gggtcaggat cgaaagttca 120
ccaatatgca aagcagttcc tttcatctga tagcaatagc ggccaacaaa aggagtagct 180

agccagtgtc cttgcgaagt gcaagcagcg gagtgggctg tatttcctga tcaaataatt 240
 ttgcctatgg cacattctgt ggaaactttg acggatcttt gcctgctttt ctatgcgatg 300
 taagctgctg aaacctgcac tcatcaaagc ttgtgtatgc agatggtacc atgcatttgt 360
 ttccctgaat ggcttcaaag gaaatgaatg ttttttttta aaa 403

<210> 53855
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A3

<400> 53855

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 tgtggcgagg tcagggttcc ggcgcagtgt ctccgtctct gccttcgcgc cgccgaaggc 120
 gcccgcgcgc cgccccaaagg ccgacctatc cccaacctc ttcgtctccg gcttaagcaa 180
 gcgtaccaca agtgaaggac ttagagaagc ctttgcgagg tttggtgaag ttttgcgatg 240
 tcgagttgtg accgatcgtg tcagtgggtt ttctaaggga tttgg 285

<210> 53856
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A4

<400> 53856

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 cagctccaaa acagaaggat ccatcaaagc catcgaaggc gtcaaaggcc ataggattgt 120
 tttctgcctc cagccctgca aagccacata cgtcaatcag aacttctcgc agcaggtgct 180
 gctccgcaat ggtgagaagg tcacgttcga cgagcctaac ccgtttgcca ctgaagggga 240
 ggaagctgct tccgttgctt accgctaccg tcgctggaag cttgatgagg agac 294

<210> 53857
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A5

<400> 53857

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agctgcgagt ggctagcagt tatggcattt cttgtttggg tggcatcgtg gatacttctt 120
cggctcgtta tgttcccttt ctggatccta agaagcacia gctatgaagt gctgctgacc 180
ttggataggg agaagcatcg attttatggc cccatatact actatgtttt caactgtctt 240
ctgttctcac tcctagttct tcacatatat tgggtgggtac tgatatggcg gatgctagtt 300
aaacagattc aatcgaaagg gcgtgttggg gatgatgttc gatccgattc tgaaggcgaa 360
gatgagcatt gagattaact ttttaggttg aatgattaac ttgagaacta cattgtgtga 420
tacctgcagc aaggcacacc ttctgaacct tttttttttc ttttacagaa gat 473

<210> 53858

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A6

<400> 53858

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agctccaaaa cagaaggatc catcaaagcc atcgaagggtg tcaaaggcca taggattgtt 120
ttctgcctcc agccctgcac tagaggctgc gatggcagct gctgtcaagg tggctgacgc 180
ggaggcaaaa gcacatgatg cgcgatgatca gacgatggag gcagaaagga tcttcaagat 240
ggccgaggat accgagtctc tcttcataat tgcagcagag atctatgatc gatgttcaag 300
gggagagata acc 313

<210> 53859

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B1

<400> 53859

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cattgaggac aaggacacga tcattgagat aacggggggtc caaaacttgg gcaagtcatt 120
atctacacaa cattgtgaca cgcgcgagcga tagatcatca tcgcgcggtt ctagacttta 180
ctggcatgag ttcattgcga ccaaccagtc tttttgagag tattgagacg cttgcatagg 240
ctgtcgagcg attaacagag aaaaggctat atatctct 278

<210> 53860
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D6

<400> 53860

accggtactg aattctcgga tcaacgccac gcgtccgatg aggctgccgc gtgtggaccg 60
gtctctgacc acctgcgaaa gatggacggg gagctcgccg tgatttgacc ggtcactcag 120
gattggcaac cgctcgt 137

<210> 53861
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E12

<400> 53861

tctcggaatt cccggctcga cgcacgcgtc cgtccacgcg tccgaacacg cgtacagctc 60
tcagtcacct gcgccgccgc cacgttcggg gggggcctcc aatacgggga gttcaattga 120
ccgacctcgt tcttctggac aaggtctact aacgtattaa catttccgcc gtcaacaatg 180
actcttcggt cacacactat gatatttttc aacacaatgc tattttcgt cacttgcagc 240
actttactat ctatgaccag ttg 263

<210> 53862
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E5

<400> 53862

aaaaaaaaa aaaaaataca aaaaaaaaaa aaaaaaaaaa aacaaaaaaa aaaagaaagg 60

at 62

<210> 53863

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F11

<400> 53863

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aaaaaaacaa tctaataaat acaggttggt tactaacatc aagaaagaca catcacatat 120

aagatcatct gactaaactt gagtggcccg ttcttaataa cccaagctac tgtaaataatct 180

cttccaagac caaacttttt caccatccac ctcatatctc attacaccgg cgatcttttc 240

aaacctaagt tccttaaaaa accctatcgt ttccaatttt accactttta tgataaatgc 300

tattttcctt gtgtgcccac attaaacata ggccc 335

<210> 53864

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F3

<400> 53864

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aaggaaaaca atcctgaaac caagccatgg gtctggggga ggaatttgag gagcatgctg 120

agaaggcaaa gaccttgctt gagagcacga gcaatgagaa caagctgac ctctacgggc 180

tctacaagca agccacgggtt ggagatgtga ataccgatcg tacgttcata ttctaccata 240

aggacatggc caaatgggat gcctttaatg ctgttgaatg caaa 284

<210> 53865

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F9

<400> 53865
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ggaaggtgca gagttgatgt gggcgtgatg tatctttcta agttattgta agccggtctc 120
tgtcttcaca actgacgata tgtgtgtggt acgcaccacg cacgcaagtc gcggttggtc 180
gtgtacgtct gaactctgga gcattgggtt gttgtaccaa cataatgagt cacaacggcg 240
gatggctggc tatacgtaaa aaaaaaaaaa aaaacgtaca ataaatttt 289

<210> 53866
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G3

<400> 53866
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cgatcttaga tccactagag actaaaatcc tggctctggg ggggcgcctt catcggggag 120
accctacca cctcgatctt cctctacatt gccattctca ccgccacagt cgtctccaag 180
tccacctcca actgcgccac cgatggcatc catggcatcg cctggctcctt catctgcatg 240
atcttcgaac ttgtctactg cacca 265

<210> 53867
<211> 487
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H4

<400> 53867
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tcgaggtagc atgtacctgg cactcgagta tcatggatga gactgttggt cgtctattca 120
aaagtggact aggtagattc gggcttggac agtctaaacc agccttcggt gatcaatctg 180
ttcttatcat ttttgttctt ggaggtatta atactcttga ggtccgggaa gtcatgacag 240
cgatatcgga gagcagcaga ccagatgtgg agcttattct ggggtgggaca acccttctta 300
ccccagacga catgtttgag ttgatgttgg gatcgtcaag ctttgcttag gctcaacctt 360

cactcttgag tcatgtgcgg gacttggaaa gaaatcggag cataatTTTT tcttattctt 420
 cagaatagtt acttgtctga tgtagcagaa gcattcagac ttggaagagg atactaccag 480
 aagaaag 487

<210> 53868
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C10

<400> 53868

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 tgcttgaaca ggtctattgc aactagcacc ccatatgcaa acctatcaaa tgaaaaatgtc 120
 attagtggca taactcctga tatcatgggtg aagatgtggc ccaaaaaatat gtattgtcta 180
 taaaacaatc cttctcaaca ttttggtagt cccatttga aacattttac aggtccctgg 240
 aaacttaaaa gtcaattaac ttttatgttg gagcttttca agaaaaccat tttgctaaaa 300
 tgcattatca aa 312

<210> 53869
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D11

<400> 53869

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 aggtccccc ctttgtatgt tgtggctcca atccatgtgc gagcacgctg tgtctgtcgt 120
 gacacctggt tcgtgagatg ggttgtcaaa cttgattggt ttgttgtgcg tggctggaag 180
 agctgatagt tatatatattg gcttggactg tgccgcttgt atgtatctga attctgaaag 240
 cgttgtaatc tgagcatccg tgcaaagtat gaatggccct tttatatggg ctggattttc 300
 cggtttctaa aa 312

<210> 53870
 <211> 158

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-E9
 <400> 53870
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 aaaaaaaaaa aaaagggagc acttttttaa agataaaagc ttaggaacac ccaaattaaa 120
 cagcttggtt tttttatagg gttacctaaa ttcaatta 158

<210> 53871
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-G9
 <400> 53871
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 caaagttttg tttgtgattt tgttcccggtg ctatccaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa gggtaaactg tataaaggat ccaaccttaa gcaacccaat 240
 tatgcaactg aataaatctt ttttactggc accaaaatca aattaattgg ccgtgggttta 300
 acaacatcta aactggaaaa accctggtgt taccaaacta aatacgcttg cactaaatgc 360
 cctttt 366

<210> 53872
 <211> 197
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-A8
 <400> 53872
 aaaaaaaaaa aaaaaaaaaa aaaataaatt aaaaaaaaaa aaaaaaaaaa aaaaaaagga 60
 agaaaaaaaa aaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gcggccggtt 120
 taaaggatcc aagtttactt ccccggtgctt gcaacttcat agcttttcta tagggtcacc 180
 taaattcatt tcattgc 197

<210> 53873
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B1

<400> 53873

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ctaaagggtct cacaagaatg gcggtcaccg tggcgggtcac catcgacacc accatgaatg 120
acatagtaac tctgcagaac ctaatgacag gaggcaagta ctgaaagatg gccagagggc 180
ccttgaaggt gacagcgcgcat actgaagata tcccagcaag gtccagttaa ttgtccttat 240
taaggacatg aagatcattt ttttttcggt cctgatgttc tcagataatt attgtattgc 300
tgacaacata tctttgattt gtgaatatac taaacatgtt gcctaaaaaa aacaagggaa 360
caatgaataa gaaccaaa 378

<210> 53874
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B5

<400> 53874

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cgttcacgtt tgggtatcat tccggaggat ccgacactct ttcaaggaac cataagatat 120
aatctagacc ctcttgggca attctctgat caacaaatat gggagggttct aggcaaatgt 180
cagcttcttg aagctgtcca ggagaaggag cagggattgg actcacttgt tgtggaagat 240
ggttcgaact ggagcatggg tcaaaggcag ctcttttggt tgggacgtgc acttctaaga 300
agatgccgta tcttagttct tgatgaggcc acggcatcta tagacaacgc tactgatgct 360
atccttcaga agacgatcag gacagagttt agagattgca ctgtcatcac tgtcgcacac 420
cgtataccca ccgttatgga ctgcgatatg gtacttgcaa tg 462

<210> 53875
<211> 185

<210> 53878
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C8

<400> 53878

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tcaactcactc tcttcgatca ctgtactgaa gagagcaggg ccaagtcgac cgggatgttt 120
gtagccgccc tggccctggt ggtggtgatg gcgacgacga gcacaggcgg tggcagggcg 180
gcagcgctcgt gcgatcccaa gccgttggtg gtgtgcatc cggcgttcat ggacggagcg 240
aaacccgcgg cagcatgctg ctccaccctg cgtgcgagc atgcatgctt gtgcgtgtac 300
gccaaagacc ccaagtgtgc aaaatacatc aacaacccca acaccgtcaa aacctttacc 360
tcgtgctgga tagccatgcc caaatgctaa gcaagcgtc tgcgtagtcg tttcgcttgc 420
tcttgctctt gtgtgtaaca t 441

<210> 53879
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D4

<400> 53879

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acaaaaacaa aaa 73

<210> 53880
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D5

<400> 53880

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catgcaacgt tcaacaatgt tctgctgacc tattatgctc caattcgtga agaattttct 120
gatgattatg ctatcatctt cttcaatcgc ttatggatta tcatcatgtc ctgctcgctg 180

ctgcaccatt tactaacgac gttctgctgc taacgactct aggagtttgt ggtgtgacga 240
 cacttaatga atcctacaag atgcttggtta ccacattctt gtacgatgct catggaattg 300
 aaaatctgct gctaccaaca aaggattacc tttat 335

<210> 53881
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D7

<400> 53881

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 tgtccttgcg aagtgaagc agcggagtgg gctgtatttc ctgatcaaataattttgcct 120
 atggcacatt ctgtggaaac tttagcggat ctttgccctgc ttttctatgc gatgtaagct 180
 gctgaaacct gcaatcatca aatgttgtgt atgcagatgg taccatgcat ttgtttccct 240
 gaatggcttc aaatgaaatg aatgtttttt ttaaaaaaaaa tctatttaataatttaatt 300
 tttaaaa 307

<210> 53882
 <211> 139
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D8

<400> 53882

cccgggtcga cccactcgtc cgaaaaaaaa aaaaaaaaaa aactaaattt tttaaaaaaat 60
 aaactaaaaa caaaaaaacg aaggttactt ataaaaacaa ggcagactat ttataatttc 120
 tagttttacc aaactttca 139

<210> 53883
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D9

<400> 53883

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 atttgtgttg taccaaataa tgagttgaca tgccatcgcg tgtgactcat tattattaac 120
 aataaaacaa gtttcctttt atcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 acaaaaaaaa aaaaaggcgc aggggctgta ggtttacaag ttccaagctc acgtacgcga 240
 gcttgcaacg cttttatact gcgatacata aac 273

<210> 53884
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E2

<400> 53884

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 tgctagactg taaccacaag aagtttgcca tgaaattcgg tttggtcgca gcagtttagg 120
 tactcaactt ttctctagtc caatccaagg tagtttgttt tattctcagg tgaatctttc 180
 cgtttgtagc gtcagggttg gttgttcttt tgaacatttg ggcaatgata actaataatt 240
 caaggctcctt tacaagtaaa aaaaaaaaaa aaaaaataaa aaaataaata aaaa 294

<210> 53885
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E7

<400> 53885

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 tacttcaccc caccctacct gacgcctata aactcactca tgcataaca aaatacagtc 120
 tccaaatata cccttctcat tcatacaatt ctaatcttat aatcttttac acatacaacc 180
 aataattccc atatataata acttcatata attttccaaa tacccaaaac c 231

<210> 53886
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F8

<400> 53886

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tttctttacg ctaataagtc cactctcaaa gcgtcgttca cctaactact taccgtcctc 120
taatacataa aacctactca attaatctgc aatactactt tacctacaat acaatcttaa 180
ccagctaact tattgatcaa atatcaccaa ttactcaaac tcatccatta aaattcccaa 240
ttttctactg aaacatacta tgatctgtat ataaaccaca taacattcac tactataatc 300
tcctgtatga tttctaacta ctgaattaca tataaatcac taactaatct actctatctt 360
accaatactc tcttaacatt tctcttctga tttaacatta cat 403

<210> 53887

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G3

<400> 53887

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tcctaccacg cttccgctca gttcgcgtgg gtattatcca aattaagacc gaagctcctt 120
gaccgtctga tctcctgtcc aaatacaacc tactaatcac tatcgaccaa catctctttt 180
atgccacggt ctacaccoga gcaaagttca ttttaccagt ggatccctac taataaagga 240
agatgattgc gatctcatct tgtggatcta tactaactcc ctactcactt tcgctacaca 300
tgatgtacac tcataataaa tgtat 325

<210> 53888

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H2

<400> 53888

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aagggttaa aaaaataaaa agg 83

<210> 53889
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H7

<400> 53889

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tacaacgcta cagctgcctt tctcgccagc tgcaaggcca actcttacgc ttccctcggc 180
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tgactcccta ctctatgcgt tcccatttcg gaactcctgc ctacgatcta cgatctacga 300
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<210> 53890
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B3

<400> 53890

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aaggagaagc accaaatgac caatttatat gttgagctac tagtggagat catgagggca 180
cagaacaaca accaacadgt tgtgccaaagt agcgtccttg ttaatgataa ccctgggatg 240
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gccatgacga ttctagaaga acaaccaa atgctgaatg tcattcataa gaaaaagagg 360
catggagtga aattttggac cac 383

<210> 53891
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B5

<400> 53891

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attacggttc acaatttata cacacacatc atacaaaatc gctatcatac acaggcggtg 180
aggtgtacac gcgcaacgct cccgtgccaa cagccaggct cacgcgaaaa aaagcccttc 240
cacgatgacc gaaaaacaaa gcacatccaa atccatcccc aaaaaggga accgcgacat 300
gcgaaacctc tcaaaaacg 319

<210> 53892

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B6

<400> 53892

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attacggttc acaatttata cacacacatc atacaaaatc gctatcatac acaggcggtg 180
aggtgtacac gcgcaacgct cccgtgccaa cagccaggct cacgcgaaaa aaagcccttc 240
cacgatgacc gaaaaacaaa gcacatccaa atccatcccc aaaaaggga accgcgacat 300
gcgaaacctc tcaaaaacga ccatccggac gttggacaca 340

<210> 53893

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C10

<400> 53893

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ctgttactgc aaatgatgtc caaacaacca ctatcttcta taccctatgg tccccatcct 180
ccaccaaggt gaacagcaac atgctttatg caagctcaaa ccataaattc aatattgtcc 240

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tcaaagatct tgcacactat gcacac 326

<210> 53894
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E3

<400> 53894

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cggtcaccgg accggacgca caggggcgcc gtacgtgcag tcatcggccca tgaaggtcct 180
cgtcgtcgcc gtgctggcgc tcgtcgccgc cgacgccgtc gccgccgccg ccgccggtca 240
gggcgaggag gggggcgggc cgccgctgcc gttcgcggtg ggcgcgggcg cggcgggctg 300
cgacgtcgcg cagggcgagt ggggtg 325

<210> 53895
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G1

<400> 53895

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ctactatgtt cgccgcacat tcaattcatc tgcgtatcaa tgatattgct ctggcatgtg 180
gcatcgaaag catgtgcaat gcccctaaagc acattgctga agctaggaaa gggctctcgtt 240
ttggacatga cacacttttt gatgccatgc ttaaagatgg actttgcat gtttacaatg 300
actgtgccat gcgaatgtgt gccgaacttt gtgctgacaa tcatgccctc acaagagaag 360
accatgatgc ttttgcta 378

<210> 53896
<211> 78

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-G8
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 ctcaactatg agttcccg 78

<210> 53897
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-H10
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 gattcatccg gtcctgagcc tatggttgaa gcctgagttc cagcggaagg ggacaatgga 180
 tatttggtt atgttatctg attcagaagg tgcaaaacaa gttatctttt gactacagaa 240
 tcatcatgta attatgagtt gccatcttgg gctgccactg agagggtgtg atttgggtcc 300
 ggtagcaat ctcatgtatt ggatttcgga tcagtattcg aagctttcat aacgaggagc 360
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<210> 53898
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 tcggctgccg tctcgctccg gggctggtgg gacgatgtca acgagtcgcc ccagtggcag 180
 gacggggcct tcttctccct cgccgacgcc tacgccctcg tctccgccgt cgcactgatt 240

cagctcgtca ggatccagcg ccgggtgccc gagttcggat ggaccacgca gaaagtcttc 300
cacctcatga acttccttgt caatggggtc cgtgctctgg tgttcggctt acatgtccat 360
gtctatctcc ttcgcacaaa agtatacaan gtgggtgttg taga 404

<210> 53899
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H5

<400> 53899

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aaaaaaacta tacataaaat aagagccgaa aatataacta attaaaaaaa aaatacaaca 120
actaaaaaac tatctacaac tccctaccca ttcactcttc tacctctcct at 172

<210> 53900
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A10

<400> 53900

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agatggagat aaatatccca gaagattgtg ctgcattaac aggacagtta caaccttttg 180
tcaaagaaga agttttggtc cctgtattca atggaacttt tccatctact gcacagcact 240
tcttttagtat tcttttaagt gatgactcga actacataac acagtatcga acatttcaga 300
aggataaaga tataaatctg ggccaatggc acattgcaca tgagtatgat ggccaggcga 360
gggaacttaa ttgtaaatca atatgccata gtccaatgtg ccctccttat tc 412

<210> 53901
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A11

<400> 53901

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cgtgaggatg agaccctatc ttctatcaaa gaacgtatac agaaaaagct taaggttcca 180

aatgatgatt tctcaaagtg gaagtttgca tacatttcac tcggtcgtcc tgactatttt 240

caagattcat atactgtatc cctaaaattc catataaaca tgtattgatc ttgtgatcaa 300

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<210> 53902

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A12

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cattctactg caccaacgtg cgcgcgctct tcgaactcac tctcctctac cacacccgaa 180

agggcaagca taaggagcac tctcacttca accgctccct agagtccggg ccgtacaccc 240

tcaacaaccc aatatccatg tggggctaca aaagggctct tccgcatact actcttgaac 300

aatcacattt tcttaaagat gaatgcttga acataaactg tacattggca tgttgtaata 360

tcaactattg attattctaa gccacattca atatatgttc cacactctga cataggcttt 420

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<210> 53903

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<212> DNA

<213> Zea mays

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<400> 53903

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cgcggcagac ggcacaggt cgtgccatgg acgacgacgc cacggtcgga tcgcggcagc 180
gccagcagca gccgtgctcg ccggcggtcg ctgattccag ggccatgatg gcggagctgg 240
acgcgccgct gcacgccctc gggttcgaga tcgaggagct cttcccgtcg cggctcaccg 300
gccgactccc catcactccc atctgctg 328

<210> 53904
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B1

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaagggccgc ccctttaaaa gacccaagct tacctaccg tccattcaac 240
gtaaaaactt ttttataggg ccacctaact caaatt 276

<210> 53905
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B7

<400> 53905

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tcttagaca acatttactg tctatgactt tggaactcca aagctaatac caattatcaa 180
tttagttctt ccagaccaca ctacatgtaa tcttgaatac cacctcctac atgaatatac 240
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<210> 53906
<211> 380
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C3

<400> 53906

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aagaacaata atcacgctga ataagtgggc cccacatcac aatcctgcac atgattttac   180
catcttattc ttaaaattat tcttgaaca attggatcta tatcattaaa agatccaaac   240
tttagatata taccatgaac cccacatgtc attgactcat gtggaccac atgtaagtga   300
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<210> 53907

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C4

<400> 53907

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aattctaact ctacataaga gcgcctcaca tcacaatcct gcacatcatt ttaccatttt   180
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tatataccat aaacctcaca tagtcattca ctcatgttga cccacatcta aatgagatac   300
taatgggatg gatccaaaat ggcaatcttt taatgggatc gatccaaatt tcccattatt   360
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<210> 53908

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-C5

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acaaaagctt gatcagcttg ggcctacaaa acctcaacaa cncaagttat gtctgatctc 180
gacgccagct tccatctgcc tttgatccgt tgctgagcaa atgctgagac tctggtgctg 240
gtcctggaac gaagatatct gcatgtgcgc atcagcagcg cncggcagac agagtctgac 300
tacagtgaag gtctgaaaaa gagttagctt cacaagatcc taaggatctg aaaaagaatt 360
ctgctgcaat ggtactgcag ttcaggaccc agagctaggc caggtcattc 410

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<211> 348
<212> DNA
<213> Zea mays
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taaaatccac acattttata tctcaagata ctctaataga tattccctaa atacaagctg 240
aatataaacc ttacagact tttaaactga aacgtcttct tcaactgaatt actcaaccaa 300
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<210> 53910
<211> 405
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 53910

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gaggcctacg gcgaggagct cctccgctcc atcacggacg agatctccgg cgacttcgag 180

agggccgtga tcctgtggac gctggaccca gcgagcgcg acgcggtgct ggccaacgag 240
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 tncgcgcaga tcttcgcgac caggcaagct tatcacgagc ggttcaagcg ctcgcttgag 360
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<210> 53911
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E4

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 tcgccgttac atacggcgtc tacgtgctct cgctctccct tggcggcggc acgtcgagat 240
 actaccgca cagcatacat gtgggcgctt tcagctccat ggagaagggg atcttcgtgt 300
 cctgctccgc gggcaatgc 319

<210> 53912
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H12

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<210> 53913

<211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-H7

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 tgttctaaaa gactctgatg agtggttctg aatgtctgca tttcaagttt gctgtgtgat 240
 gttaatgtac cgtgcgtacc ataaaaaac ttaaagatct a 281

<210> 53914
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-H9

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 cgaccggggc atacgcatgt acaaagcatg ctggcttccg cttcttgaca agcacactaa 360
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<210> 53915
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-A7

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 cccttctctt tattccaaat ttactttccc tttcttgcaa caccataatt cttttttttt 180
 gccacctatt ttcaatttac tttcccttat tttacatcct cttcacttta aaaacccttt 240
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<210> 53916
 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-A8

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<210> 53917
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B5

<400> 53917

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<210> 53918
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-B7

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 gcaaggtgat gcttctgtac tgaagccaac gctaatactg gctgtacctg ctatacttga 240
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<210> 53919
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-C12

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 aaaaaaaaaa taaagggggg ccgccttttt agatcctcca ttcttacctt ccccttccta 180
 cgacttaatc cttctttttt ttccccacct aaaattttac taccgcctt cttttaacaa 240
 cctgacttct aaaaaaatcc tttccttccc caaattaatc tttttgcaaa tcctcctttt 300
 ttcacctatt gcaataacaa aaaagcccc cccacctttc tcccttacca atttttcccc 360
 ctccctaatt aataatgcgc cccc 384

<210> 53920
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-D4

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 ctgcaggaca actccaaaca ctatcagggc catacacaga actctgaaca aaagccccaa 240
 caagcagcag ttacctgctg tagaataaga gctgtgctct actctgatgc gcccgcttc 300
 ctctagcag tacctcgagg ctataactcc atgattccgt aaccgtacgt gttcgttctc 360
 ttgcaaacga gatgtttgt 379

<210> 53921
 <211> 316
 <212> DNA
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<223> Clone ID: LIB3079-022-Q1-K1-D5

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 ggagaccaag atcactgggtg ccaatgcttt catgaaatca catgcccctc ttgtgcacct 120
 gtccgcgctt ccagaaagca ccgttggtga ctcgagatag cgacctctac tccgaattta 180
 ctttcagctc ttgcatgttt gtgggtgtgg ccatcatgta ctgattttcc cttttcaaca 240
 attgtcgtga agctgtatcc tcttgaataa aaaaaaaaaa aactaaaaac ccgcccctat 300
 tattaaaatt acctgg 316

<210> 53922
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E2

<400> 53922
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 cttccatacc atggaggggtg attcgatcaa aagctccagt gtgggctctc ataatatcac 120
 atttttggca taactgggga acatttattc tggtaacatg gatgccca tactacaatc 180

aaggtctgaa ggtcaatcta accgaatccg ggcttctttt tgtcttggca tt 232

<210> 53923
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F11

<400> 53923

cccacgcgtc cggaggagct tcagtgtgt atgatgtgta aactatttag tgtaagttgt 60
aaccaattgt tgtaagttgt aaccagccac tatgttataa tcctgtttgt ttcagctttt 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaagtacg cctccaaaaa acgtcataac ttttctataa tgaaccctaa 240
attcaattaa ctgccacttc gttttacctc gtttttatta ggcaaaaccc tgttg 295

<210> 53924
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F12

<400> 53924

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggtgca aaccaaaaaa atcaaaactt 180
acattcacat gcatgccact tctaatttat caaatattgc cccctaaata aaattcaatg 240
cccaccattt taaaacaacg taaatggaaa aacccttact ttaccaaact taatcgctta 300
ttaaacaatc ccattttccc caatttgatt aattttcaaa atgcccacac caatccccct 360
tcc 363

<210> 53925
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F9

<400> 53925
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 aaaaataata taaaaaaaaa aaaaaaaaaat agggggcggc ctttctatat caatccatac 120
 ttacttcagc gtccttgcaa cgtaatagct cttttttttt gtaacctaaa tttaatcaac 180
 tggccggcgt ttacaaccat tct 203

<210> 53926
 <211> 175
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-G2

<400> 53926
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 cttttcatcg acccgccggc tgtaggcctt ggcgtctctg gagtctggaa gctnttttct 120
 tctgccttc gacttcgtca tggccggcgg caacctgttc gggcgggcgc tgagc 175

<210> 53927
 <211> 122
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-022-Q1-K1-H1

<400> 53927
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 gcgcccggcg cccttgcttg ggccgtgcgt ccggtggact tcaaagtcct caaaaaagga 120
 cc 122

<210> 53928
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-022-Q1-K1-H6

<400> 53928

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tccttatttt atacgcggta aaacaacgag ccttgataat tcaccggatc ttcttagtat 120
tatctctgac aaaaaaatat aaagtctgtc ccacaaaatg caaattagtt tcttgatttt 180
caattggttg ttaaattgtct gacatgagca atcagtttgg ttagcataaa aggatggtga 240
ttttgacaac tacacagttt gtaggaacaa caataaaaac acttcattat atattagggc 300
tctatgatgt tcaccattca tggcttccca ccagatcaca cattgcataa atcaagttct 360
acgctattgg ttacttttca gagattcaga cagaacattt atattcttgt tcctggattg 420
agcata 426

<210> 53929
<211> 186
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-023-Q1-K1-A10
<400> 53929

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aataactaga acgcaaggaa atataaaaaa agtggcgggc gttttaaagg acccaagctt 120
atgttccctt gcatgcgagc tgataaatct ctttttaggtg caccaaaatc caattcattg 180
accgct 186

<210> 53930
<211> 370
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-023-Q1-K1-B1
<400> 53930

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tcgggattga caagccactt atacaactat gggcggtca atcactaatc ccagttactt 120
atgctggagc agtgtcaaca atcgatgacc tatagaggat aaaaaacgca agcaaaagtc 180
gattctatat aactcttcgg agtactctac atatatctga aggacattta ccctacaaag 240
atactgacct taggcacaat aagcaaagta ttgatgccca attgtcaaag aacatatggt 300

cgcgctcgac ggcgctgagc acggagctga tcaacaagcg gggccatgtg cggcgctgac 120
 ttcccatcg cctgcgacgc ggggcgggtcc cagtgggtgca agccggggcg cgctccgctc 180
 acggtcacgg ccaccaacct gtgcccgcgc aactggggcg tcccggggcg cggcggcggc 240
 tgggtgcaacc cgccgtgccg acacttcgac atgtcgcagc cggcgtggga ggccatcgac 300
 gtgtaccgcg ccgggatcgt gcccgtaaac taccgccgcg tcccgtgccg tatggacggc 360
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<210> 53936

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E3

<400> 53936

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 tgctattgct ttcactactt gcttaaaggc ggggtgatgt tatcactcgc cagcgaatg 120
 atcttctcgt gactgacacc atcttactcg ggtaagcact gactggctat accgaacctg 180
 acattcctct taaacgacac tgcctcatct atcacatatg cttattaatc catccaaagt 240
 acagaggaag ccatacacta tatgaggatc ataccacaac cataagggac cctcggacat 300
 tgggagcagt tgaatctaac tcagcatcat gatccatgct tgacatcctt gtgaggataa 360
 cgacgctacc aacaagctgt tggaggccta ggacaacaat tctcctaagc agttgttact 420
 catgaaagtt tgccctg 437

<210> 53937

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F3

<400> 53937

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 caagctataa caatggtagc aaaactgatt tagagacatt catccaatca aattcagcac 180

catttcaatc tgacaacaac cttgagctgg tgaacaagt gctctcctag atgtacaaac 240
 agaacataca aaggctgacc cagacttact tgactctttc acttgaagat attgctaggt 300
 ctgttcaact tgaacacca agggatgctg aaatgcatgt acttcgcatg atcgaacact 360
 gagagagcca tgcattcata aacaaaaagg atggaatggt cagctttcat gaatattctg 420
 aacaatataa aagtgttgaa atggtgg 447

<210> 53938
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G1

<400> 53938

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 gggactttac tgtacagact cggttgaagc agtgggttgaa gagcggaaaa tgcgaaaaga 180
 aaatgcctgc gatgtactcg aggaaaatgg gtgcagccac cttcaggaat caaacggtct 240
 agacttgatg tttgcagact agagtatgac aacatgttat tccatctctg atgttaaatac 300
 tactccctgc atcctcattg atggcacaaa gttgcaatac agaacatgac agggcttatg 360
 agagagagag agagagagaa atttattctg acacacatgt atggatcaca tttggttgtc 420
 ttcttaaaac aagacacgac aagatattct ttttacata 459

<210> 53939
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G2

<400> 53939

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 tgactaagga gcatagaatg tggagaattt taccttgggc caatcaaaag ggcaactcata 120
 agagactcta ctgaactaac tcaatagaat caaaggatag aatagaggaa aatgcaaata 180
 gaggatgaac ggtatgttct cttggaaaac tgctgctaga acgtttatga atcaaacacg 240

53938 " 53939"

gtatactaga tgtgctcgga ctaaagtatg acaacatggt ataagatctt tcatgttaag 300
tctactcctt gcatactgaa ctgtggaaca aattcggtat acagaacatt acagggctta 360
tgctagagag cgatggagac atatataacc tgtgacacat gtatggtg 408

<210> 53940
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G9

<400> 53940

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atcaacgagc tcatctccaa gctgcaggcc ctgctcccca gctcccgcgc cgcgggctcc 120
ggccaggcgt cgacgacgaa gctgctcaag gagacctgca gctacatcaa ggcctgcac 180
cgggaggtgg acgacctgag cgaccggctg tccgacctca tggccaccat ggaccacaac 240
agccccggcg cggagatcat ccgcagcatc ctccgctcct gatcgccac gcgcctccta 300
ctgcggcggc gccggccggc gcgcgagaga gcgaggtcgg cgacgacctc gatcgccgac 360
aacgacgacc gcgcgcg 377

<210> 53941
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H10

<400> 53941

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catgtgcacg gggtttgggt ggaatgccta cagaatcgac tgtgtcaagc tttcttgatt 120
ccgtagaaac atgttttggt tgacctcatc atagaggatc tccgctttta tcgtacaaag 180
attgtgatat gttcttagct tctttctacc tgaataagag gatttctgca gacccttttc 240
caaaa 245

<210> 53942
<211> 246
<212> DNA

<400> 53945
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 acggaggaag cataatcaga caatgaaaac taaaagaggc ggccgatcta gacgatccaa 120
 tatcacatac acaggcttac cacattatag ctcttatata gtggcaccta aatacaatgc 180
 cca 183

<210> 53946
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C8

<400> 53946
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 tacatacaga aacatatcaa ccacataact ctcatataat atactcctaa attcaattca 120
 cttcacccctc catatacaac ctcttaatct aaaaaaaccc ttccattacc catcttaatc 180
 accttgcac acatccccct ttcaccacca tacatactaa ctaccacgtc ctcacctatc 240
 ttccttccca acaattgcac accctcaatt gctaattgga ctcccactgt actctcgcat 300
 taatcacccct cgccatagtg gttacgtca acctgaccat tccactctcc atctccctat 360
 cgactcatcc tttccttttc ttccttctct ttctttctac gtt 403

<210> 53947
 <211> 497
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D1

<400> 53947
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 ggctcccaga tggcacgacc atcttcaggg ttggtgctta aatttccacg gtcgggtgac 120
 cgtcgctcc gtgaagaact ttcagctcgt cgccacagct ggctccggtt ttccttggg 180
 cgtcggagac caggagacag tgatcctgca gttcgggaag atcgaggact atgcgtttac 240
 gatggactac cggcagactc tgctcgctt tcaggcgctt gccatctgcc tgaccagctt 300

tggcacgaag ctggcctgtg aataaatggg tgccggttta ccaactatgt tggggatcag 360
 attgtatggg gtagtctgaa ctaggtgccc tgagcacctc agatgggaga aaactggcga 420
 tatgatacac ggcggaacgtt gtcctataa accttgactc ccttgaatcg ccctaataatgat 480
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<210> 53948
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-D3

 <400> 53948

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 agggggaatg gggaaggag cgcaaggag cgatgcggcg gcggcggcg gcgaggtgga 120
 ggagaacatg gcggcgtggc tgggtgccaa gaacaccctc aagatcatgc cttcaagct 180
 cccgccgctc ggcccttatg atgtccgct gcgcatgaag gcagtgggga tttgcggcag 240
 cgatgtgcac tacctcaggg agatgcgcat cgcgcacttc gtggtgaagg agccgatggt 300
 gatcgggcac gagtgcgcgg gcgtggtcga ggaggtgggc gccggcgtga tgcacctgtc 360
 cgtgggcgac cgcgtggcgc tggagccggg cgtcagctgc tggcgct 407

<210> 53949
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-D5

 <400> 53949

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 ttggcgctta gagaggagca atacagcggc atgcttctgt cggcctacaa ggagatgttt 180
 tctgaccgcc aagataattt gaatgattca ggggatggtg gaggagcccc agtattcaaa 240
 tggttctccg tattagaatt tgagagtctt gccaggagc ttgttcagat gtttgtttca 300

gagcaaaagt tgaagaggct gctactcttg gaatttctct cgattgcttt aaaggaaggt 360
 gtagaactcc agacatcatt aaattggggg gatgaactat atgatgggtga atcanataaa 420
 cttcagagta tnggccttca gtcaggagat gcctac 456

<210> 53950
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F8

<400> 53950

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 agagcatggt ggtecgagccc tagagcacia aattctgggc ttctggcaaa ctatttcctg 180
 agacgttcac catttccatc acagaaaaat aaagctcggg tgccttctgt tgatttcgac 240
 gtacatttcc ctgccgatgg tgtccagccc actggtgtcg ctggagaaca cgtcgttttt 300
 agacttgtga tattttacta ctgttttgac actcgttgta tttctgtata tcgcgtcaga 360
 ctgtgaaata aaagcagtac agtgtgtttc ttgcagaaaa gatcatcaac 410

<210> 53951
 <211> 155
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G3

<400> 53951

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 aacaggggaac tgcttgtatt caaaattgtg ctttcggagt gtggtactgc tgttactcat 120
 caaaactgaa aaaaatcggt cttaccatca taaaa 155

<210> 53952
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A10

<400> 53952

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cagaatgatc aactacctga tgaataagtg gaaaggatat atcataactt agataccagg 120

taccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 180

agataaaaaa agacaagata aacaaaaagc taaaag 216

<210> 53953

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B11

<400> 53953

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caattttgcc tcaatgctca caagctggta tagcttcctt gcttactcca taccttccat 120

caatgatagc ttcagtatgt gaaaaccac ctttatacc cttatgctc caacaagcaa 180

tccacagcta gcaacatacc tttatcaccc tattcggttc aacaatcgcc gaccctatct 240

ttggtgcagt catacggtca caccatcatg gcacatcaac taccgcaact catgctacct 300

gtgatccacc aaactgctct agcaaactt gctacctact ctcagcatca acactcacta 360

tcattcaacc aactgtatac acttaaccct gctgattatt ttcacaaaca tctatatcca 420

ttta 424

<210> 53954

<211> 54

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-C1

<400> 53954

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<210> 53955

<211> 347

<212> DNA

<213> Zea mays

<400> 53960
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 gaaagataaa t 71

<210> 53961
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-G11

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 acccgattgc acggcatcac tgtcttgatg ccgctctgcc gctcgggatc atcgctgagc 180
 atgctctgca tcatgggcaa cgcccactat ttcattccaca atgcacgagc acggcatgcc 240
 gaagcacata cctaacgata tgttcga 267

<210> 53962
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-G2

<400> 53962
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 aagggaatat aaaa 74

<210> 53963
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H11

<400> 53963
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 gaaagtgaat aaaaaaagga tgcataaaaa agggcgacca ctttaaaggc tccaagctta 120

cgctactcttc catgcaactt cataactttt ctatagtgtc ccttaaattc aatt 174

<210> 53964
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A12

<400> 53964

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atccttggtg ctggattctt tctttgctac tagctaggtg tcccttctcc tatcagacag 180
actataaggg caggcccgtc ctcaccgttc cgccgccgcc tcgaactgga ggagcgagca 240
tgtatccgc accgaaacac acacgcaaac ggcaccacca ccaccaccac cgcccggcga 300
ggtagggagg cagcggcgcc atgggttgct atcctccctt ggccaagatc gtgtctagag 360
cgctcgaaa atgcaacggc gggcgcgaga gatggcttga aaggaggctg gagctggact 420
ttgatcacgc cttgggctgt cagcccacgg agaccacta catgcg 466

<210> 53965
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A2

<400> 53965

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cctgggatcc gccaccagta ctagtgtgca cggcaggagc aagttttacg atggaggaag 180
cagaagaaat agttgactct gtcaatgaaa ggaacgatga cctgctctca gcatggtgtg 240
aaatggttaa caacaaagtg actcctttgc ctgcaacgcc tctacatatt cttccagcca 300
taaccacatt ctgtgtttct ggatatgagt gctaccacct gcgatattgg actgaaatta 360
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ccttgga 428

<210>	53966
<211>	418
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A3

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tgtttatatg	tccaccttca	cactgattag	ctgttccttg	ttcctacaca	ggatattatct	180
gtcatgtaca	tttttatacc	tttccaaatt	agcttattat	ctttaaaaaa	ttgtatttttc	240
ttggctactt	tacatttgca	tgaccagtgg	caacatattg	aaacactcat	agctaactta	300
gaggaaagaa	aacataatct	ttaaattgct	cataagagag	aatgtcattt	ttcagaaaaa	360
aagacaaaca	gtattgatgc	cttataaaaat	cttaaactga	tgcattgttaa	tattatca	418

<223> Clone ID: LIB3079-026-Q1-K1-A6

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aacatcaaca	catgatcctt	tagtaaccgt	ttcaataggc	gtacccccaa	gaactagtaa	180
acatggcaaa	actgttgagc	ctgttcttag	ccctctcctt	tgtagcagct	atgtttgcc	240
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agacatacgt	gatgttccca	gctaatacaa	aggtcctctc	ttcggatgct	tgctgtggtg	360
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ttgtgtgcat	ggaga					435

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 gtttttgcta ttttactgta tatatactcg ctggatcctg atgcatgggg gtaggtgtcc 120
 tgagtcaaaa accattgtga aaatagtacc aacacacctg ccacatcaag aggtaaacta 180
 taaaaaaaaa cacatttcat aatctcttgc tgacctgcta ttttcatcca cacttggttac 240
 cgtctgggtt cgctctaaaa gcgaagctta tgtccatctg catgtattga tgtgggtttt 300
 ttatttaata tattatgagt gctaccagca tgatctgttc cattctgatg attggatgga 360
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 acgacgcata ct 432

<210> 53971
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-B11
 <400> 53971

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 ttgatttcat ggtggatctg aaaggatcct aaacagcaag acccagaaaa tccgttaaac 180
 agctctgctg taccacttg taaaattaca tgagccatcg gggtcaaagc gaggcagccc 240
 tctacctga atatggaatt cttttattgg ttgttttggg acttgtgacc ttctaggaat 300
 agctacttaa gctgtctaag ggttggtatg cgcacaccac attacatggt tttcacttct 360
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 tttttatttt at 432

<210> 53972
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-B3
 <400> 53972

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ctgggcaggc ggtttgaatg gccgccaagt gattgacagg atccttcctg ctgtgcgtga 240
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catatgccat ctgatgagcg agatggggta tgcattccgc gttatcttga agaggtgtac 360
tgaagaggag agcctttatg ttctcaagtt ctggcgagac ccacacgctg ttacaagtgt 420
g 421

<210> 53973
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C10

<400> 53973

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gttcaaggac ggcggtgtg gtactttcgt tccgctgttc ctcaacggga ctgcatctgt 120
gcggcgtac aaccagtttg aaaccagtc tgctgctagc atggcacctc gtgtggaccc 180
tctgcaagct gtgcatactc ctgttgatga catgatgcgt catgcgtatg ttgacccaaa 240
cgatcctacc aagatctttc ttcatacaacc tgcgccagaa tcgcagctta ggaggaggaa 300
ctaccactgc ccagctgatg caaattagcg cttggctgga ttggcacaac tcatgctcaa 360
ttaagtgtg agtccatttg agcattttac ctatccttgt cctctaccac atctgacttc 420
aatattcg 428

<210> 53974
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C12

<400> 53974

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aggtggacta cctgatgtcg tacctgcata tgtgcttgta cttctttcat gtttagaagt 120

gccaacctct	gcattaccta	acatcttcaa	gctacctttt	ttcggacggc	atcttggaca	180
ttgccacttc	ccagggggta	gacgcttaag	aggaggattg	aggcattcca	agtggtaa	240
actaggacag	ctatcacaac	atagcagatt	gccaccaaga	tcacattcta	cacactcaaa	300
aaaataccca	tcggtgtctc	ttatcttctt	ggctgatgga	gaaatgttag	tgtcatgctt	360
caacttcttt	atgggtggaac	catggctcat	tggagagtca	aatg		404

<210>	53975
<211>	436
<212>	DNA
<213>	Zea mays

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gacacctccg	agttcgaaca	ctctccatt	ccggccacca	tcaagaagat	cttcaacctc	180
tcgtccgatt	tcctcaccaa	gagagacgcg	tgggcggta	ccttcgacca	catcttcacc	240
gagctcgacc	aaccaagaac	agattgccca	gagacattac	cggaggtgcc	atttgagaga	300
ccaactccac	ccaaagaaca	cggctggctc	tcagatttcc	agcgggagct	cgtcgagctc	360
gcgagcttcc	taaacggcga	ctacatgctg	acgagccttg	cgcaggagaa	ccgtaagaag	420
aagatgacag	tcaaac					436

gatggatgca gtagcgattg ccaagaagtt aaagaagatt ggaaagattg acattgtgtc 300
 tgttggacct gcaaaagaag aaatgaagga agaaaagaaa gaggagaaaa aggaggaaaa 360
 gaaagaatag aagaaagagg agaagaaaga acagaagaac gaagacaaga aagaagaaaa 420
 gaagtgataa acctattaaa catatata 448

<210> 53977
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C9

<400> 53977

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 aagattataa aaaaaaaaaa aaaaaataac aaaaaggtta aaaaatctag gaaagaataa 120
 caccaaacta ctatctcttt tacacccttc actcttttac ctcactctta attcacccca 180
 ctgtctactc catccttcca ccttttatca acttactgct tccacaatta aatccctttc 240
 ataataaaat ccattacccc atcaaactca ttacctatcc atcctaaatc cttttctata 300
 ctttcac 307

<210> 53978
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D10

<400> 53978

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 cggcgaacgt gtcggcgctg gtgtcgctgg gcgcggagaa gtcggacgcg cgcatgtccc 180
 gcggcgcgcg ggtgtcgcgc atggacatgc aggcagtggc ccgcgacgcc gtgacggcgc 240
 gcacccgggc cctgcccgtg gacgccagcg gcggcgtgta cctggtgctc acgtccccgg 300
 acgtcgccgt ggacgacttc tgcgggcagg tgtgcagggt tcactacttc accttcgcgt 360
 ccgtggtcgg gtccacgctg acgtacgcgt tgggtgggcaa ctcggcgcg 410

<210> 53979
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D12

<400> 53979

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 tacgcaagga caactttggt ctccactatg agatggtaga gaaaaggcca gttctgcctt 180
 caacatcacc aaaccttaga tgaaaagaaa atctaggacg gagagaggaa cacagaaaca 240
 tattacgatc tgcaggaagg actaaagatg caggaagtcg cagaacagaa ttgatgatgt 300
 ccaattaaca ccccttgtga ttactaaaac tgtgagcgaa tgttacgttg ttcttgact 360
 aacccttcg ctctccta atgaaactgtct aatgttcagg attaggtcct cttcagcttc 420
 aagataacaa cg 432

<210> 53980
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D3

<400> 53980

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 caggggtcgg cagagtgatt gaatccttca aggctcttga gtacttggat gttcgggtcat 180
 gccctcaggt tacaagggac agctgcgagc aagctggagt gcagtttcct gctggctgta 240
 aggtgaattt cgatggcagt ttgctggaat ctgatccatc tgctgagatg ttcttctaaa 300
 atgtgatctc ggttgaaatc agatttagtg tgaactgcaa aactaagatt tgaagagctc 360
 ggtcatggag gcgagtgtt gacattgctg ctgatcttcc actgtcaaaa tctatgcaag 420
 aacctgagac cacaacggat gcaagccatg atcatattc 459

<210> 53981
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-D4

 <400> 53981

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 gcattgtttg cgctcctagc tctttgtgga acggacacta gtgctaccca tatcccaggg 120
 cacttgtcac cactactgat gccattggct accatgaacc catggatgca gtactgcatg 180
 aagcaacagg gggttgccaa cttgctagcg tggtcgaccc tgatgctgca gcaactgttg 240
 gcctcaccgc ttcagccgtg ccatatgcc aatgatgatgc caggatgatg gccaccgatg 300
 acaatgatgc cgatgccgaa tatgatgcc tcatgatggtg tgccgactat gatgtcacca 360
 ataacgatag ctaatatgat gccaccgatg atgatgccaa acatggtttc accaatgatg 420
 atgccgagta tgatgcct 438

<210> 53982
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-026-Q1-K1-D5

 <400> 53982

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 tcggcgagat caactcattt caagtaacct ttctgtctaa tgtcttcta tctgtttaat 180
 cgtctcttag anntgtttgg cgtgtcctgg ttgagattt cagtctgcta gtctgcataa 240
 ttctgtacct tgttgctaca gtctatttgt actttcttaa tgtaa 285

<210> 53983
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-E1

<400> 53983

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ctcttgcgca gcgtaaagaa gacaggaagg ggaagctaca ggcagaattt tcacaaatgc 120

gtcctgttgc aatggcgccct tcagtaggtc ctgcgatgcc catgtttcca cctgggtgtcc 180

ctgaagttgg ccagcacctg ttttatggca agccacaacc agctttaata aaccttaagg 240

ctgaatttgt ttt 253

<210> 53984

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-026-Q1-K1-E11

<400> 53984

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agtgatgaaa cttggaagat ggggtgatatt gtgcgcacac tgacaaatag gaggtggtta 120

gagaagtgtg taacttatgc tgaaagtcac gatcaagcat tagtcggcga caagactatt 180

gcgtttttggt tgatggacaa ggatatgtat gatttcatgg ccctcgatag accttcaact 240

cctaccattg atcgtgggat agcattacat aagatgatta gacttatcac aatgggttta 300

ggaagagagg gctatcttaa tttcatggga aatgagtttg gacatcctga atggatagat 360

tttccaagag gtccgcaaag acttccaagt ggtaagtta ttccagggaa taacaacagt 420

tatgacaaat gtcgtcgaag atttgacctg ngtgatgca 459

<210> 53985

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-026-Q1-K1-E4

<400> 53985

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gccttttacc ccagcgttct ttgccccagg gggcagtcca tacttggtgg atgcaaaagg 180
 tgcaccagtc ataccaccgc tgtcaggtct aagcctcggc atttctcatc catctttcaa 240
 caccagagca acacagccct catctaata actgagttac ttccatccta gcgtggattt 300
 cagttatgga gtgtcatctg aaggcgcacg tagggaagca gggagctact ggcccatgtc 360
 ctaccagggt cagacaatgt ttgtggatga acgcatgang aatgtatcac aggatggtac 420
 ttctgggttg gtgctgaagc gaaaag 446

<210> 53986
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F3

<400> 53986

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 cgcgccgtcg cctcctccgc gccgcgcgc gtccgccacc tggcgggcgc cgcgaggcgc 180
 gcggaggccg agctcaagag gacggcgctc tacgacttcc acgtcgccca cgcgggcaag 240
 atggtgccgt tcgccggctg gagcatgcc atccagtaca gggactccat catggactcc 300
 accgtcaact gccgcgcaa cggcagcctc ttcgacgtcg cccacatgtg cggcctcagc 360
 ctcaagggcc gcggggccat ccccttcctc gagtccctcg tcg 403

<210> 53987
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F4

<400> 53987

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 aagattatta tacttgacta agcagatgga atggcagaag atgcccagaa tgctttgagg 120
 cgtaccacag agacttactc caaagtgacc agattctttt ttatatgcaa ctatatcagc 180
 aggataatag aaccacttgc atcaagatgt gcaaagtta ggttcaagcc tctttcagaa 240

gaagtgatga gtagtcgcat tatgcatata tgcaatgaag aaggcctcaa tcttaatgct 300
caggcgatgt ccacactgag tgtcatttct caaggtgac ttcgtcgtgc tataacctac 360
cttcagagtg cagctcgctt atttggatct tctatctctt ccagtgcct gatcagtgtt 420
tctgggggta tccctgaaga t 441

<210> 53988
<211> 470
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-026-Q1-K1-F6

<400> 53988

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gccatcaaag gtttctggga catgtacgac ccagagggct actctttgtg gttctgtgac 180
tacaagtaca atgatgagaa caccgtctcc tttgtgaccc tgaacaaggt tgggtggattc 240
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gtaatggacg aggtctatga catggagctc tacgagtgga ccaaggtgga catctctgat 420
gaggccata aggagcgtgt caatgcgatg attgaggacc aggagccctt 470

<210> 53989
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G1

<400> 53989

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tttcatgaaa ttgggcactt tttggcagca tttccaaaaa atgctaaact ggggaattcct 180
ttctttattc cgaacttcac ccttggaaact tttggcgcaa ttactcactt caagtcatt 240
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cttttctttt caatgttctt tgtcgggtta ttactctctt caaatcctgt tgacgcaagt 360
gattt 365

<210> 53990
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G2

<400> 53990

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ctgttgcaga caaatgtgca agcacattca gcgcagacag gactcgtaat,ttgattgtga 180
ggctgcgcca taatgtcatt cgaactggac tgcgcaacat cagcatttct tactcaagga 240
tctcccttgc tgacattgct aagaagctaa gactagactc tgagaaccct attgctgatg 300
cggagagcat tgtagccaag gccataagag atggcgccat tgacgccacc atagatcatg 360
caaatggctg gatggtatcc aaggaaactg gtgatgtcta ctcaacaaat gagccacaaa 420

<210> 53991
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G3

<400> 53991

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ggccaccgct gctgcaaacc gcaaactggg ttatggcccc gggggaggag gtggcggtgg 180
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<210> 53992
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-G4

 <400> 53992

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 gttgctgcat acgcgcaact ctgttaatgt accccgggag cagctggtcg tcgtggcagc 180
 gcgggtacct gatgagctac ttacacaggt ccaacatcac ggtcctgaac aggttctaca 240
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<210> 53993
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-H10

 <400> 53993

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 gacgcagagg tcccgcggt tcagcttcgg gacctgtcc acggaggagg cgatgcggaa 120
 cgccatcgag ggcattgaac gcaaggagct ggacggccgc aacatcaccg tcaacgaggc 180
 ccagtccgc ggcggccgtg gaggcggcgg cggtgggtac ggtgggtggc gtggaggcgg 240
 cggctacggc ggtggcgggc gccgtgatgg cagtggcagc tacggcggtg gcggcagcta 300
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 cggctactgc aac 373

<210> 53994
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-H11

 <400> 53994

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 ttgtatgaag ctgttgggtga aaatatttca ggtccttcat tccatttgaa tgaatattct 180
 agtggaaacca tacaagctac tggcaagcca aacgattgtc gacgtattga ttcagctgtg 240
 cggaatttgt tgctcaaagg attagggtcag ccgttttagtg aggaagatat tattgggtatc 300
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<210> 53995
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-H4
 <400> 53995

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 cacctcctat cctactcaa gctgctgcaa ctggttgcct acggatatcc aaccttcgta 180
 cacaacttcc tattagcgat caggttctaa tggcagtact catgctgcaa cttgttcagg 240
 ctaacgtact tcagtcacgc acatgccact gagcgacgtc gaaggctaca ctataatgac 300
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 acattgcaac tg 372

<210> 53996
 <211> 209
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-H5
 <400> 53996

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ctggccttag acataat

437

<210> 53999
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C1

<400> 53999

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ccatggccat cattgatttc atcttggttt gctcaatcgt gtcataaaaa aaaaaaaaga 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atgggggacac 180
gaacccaggt gctctaaaat tagaacgacc agctgccaat tcaaagccta tctcactgag 240
catctagaat caatactaca tgcgcaggat aaa 273

<210> 54000
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C4

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<223> Clone ID: LIB3079-027-Q1-K1-D2

<400> 54001

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acttgctgca cgcaagggtta gtcattaatt cactacacct ttaaagcacg ggttttcttca 180
tgcgtctcct ccacctgaaa tagcgagtgg tttctaccac tacaacgtgt ctttttatgt 240
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aaaaaatcgt gtttgaataa aaa 323

<210> 54002

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D7

<400> 54002

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gaaaccctaa tcaacaaaga tcatgggggt gatgcatgga catggatgga ttgatcgatc 180
actgcaccgg aggtcgatgt ccactctaat atgtaaagta gagtagctat ccggccgacg 240
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aaagattcgc cgattcggat ggacgagctg gt 332

<210> 54003

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-F4

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aatttataat aaaaaaata caat 144

<210> 54004
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 <213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-F8

<400> 54004

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ccaaatatta ctgttgctgt aaaagcctat ggtttgaaag ctactatcca cattgtggat 300
ctacaagtct ttgcatcacc tcgcattact ctgaagccat tgggtgcctac attttcttgc 360
tttgcaaaaa tccttgtctc actcatggag aagccacatg ttgactttgg gctaaaactt 420
tttgg 425
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<210> 54005
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-G8

<400> 54005

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tgcaaattgc ttccatatgt cagtcgtcgt cgtcagacac ctgaactttg tcgattgctt 180
gggttgctgc agaaaatgcc aggtgtcatt gaagttcttg tggaaagtgg aagacctatt 240
gatgcaatta atttggttta tgtgtttgag cttactgaac aatttgaacc agtacacctt 300
cttaaagcat atctaaggga tgttaagaaa atgtcacacg ccaggaatgt caaaacttct 360
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<210> 54006
 <211> 459

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<212> DNA

<213> Zea mays

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ctcttacatg cgaatgtata actttccaaa ggagtatagt aaattaaggt aactggccag 180

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<210> 54010

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<212> DNA

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taaaaaaaaa aaaaaaaaaa aataaaaaat aaaaaaaaaa atttatcaac tttagggctc 180

ctcataattc tttttttttc ctcacttatt tttcttccat attattttcc ttttacccta 240

tttaattcat ctccaatatt 260

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<212> DNA

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<223> Clone ID: LIB3079-028-Q1-K1-G8

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aagatgggtc agattaagaa agaccagttc atccagttcc tccgcaatta cgtcggagac 180

gaagtgtgta aaaccgtggc caagaaactt cgacgatgct aaatttctag tgcgcggtgc 240

gacatcatta tctccttgat ttctactcta gctgtctgta gtagtgctca gtagagatga 300

ggaggttcac ttctgtttct gttgattcaa gtttctgtca agggcttata gggggtttgg 360

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<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H8

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ctcttctatg gggtcaccta aatgcatt 148

<210> 54013

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A5

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tggccgcagg cttacaacgt ccaaggctgg caaaa 155

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B3

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cagatcaagg tgggggcaac atgttgacga ggtacgatgg cacgaacagc agctgcaacc 240
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<210> 54016
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C1

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a continuous function and that $f(0) = 0$.

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<223> unsure at all n locations

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aacctcatcg tcgcaggttt tatccaagca atctgagaag gaagatatgg aaataaacac 180

aatacttgag gaagaggcgc tgatagcagc tcacagaaag gaaattgaaa gtacaatgga 240

gatagtacga gaagagatga atctattagc agaggctcgat cagccaggta gtcttattga 300

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<212> DNA

<213> Zea mays

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actagatcat gtttagtgta gatccgcaat gttcttgtcc ctgcagccat ctggaacggg 180

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cgggttcttc gtaaaggga aagaatatat gtgggttcgc ttgattcctt gagaaggggtg 240

aaagaaactg tgaaggaggt tgggtgctggg ctagagtgtg gtattgggggt agatgacttc 300

gatgaatggg aggaaggtga catcatagag gcattcaata ccgtgaataa gctgaatggg 360

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<212> DNA

<213> Zea mays

<223> unsure at all n locations

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aaatataatg ccacccttca tgctgatggg tcgattcttg ggccgcttac aaatcttcac 180

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282

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<213> Zea mays

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gaccctgaag tggaggattt acttctagaa atcgccgatg acttcattga ctcggtgact 300

gcatttgcgt gtaccttggc aaagcacagg aaatcatcag gtgtcgaagc caaggatgtg 360

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<212> DNA
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 aggttgactc tacatcactc tctacctcaa ccga 274

<210> 54032
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-030-Q1-K1-C12
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<223> Clone ID: LIB3079-030-Q1-K1-E10

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caaagtgttg gcacctaaat aagccatcta ttcaggctct tatccatggg ttgaatagac 360
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<223> Clone ID: LIB3079-031-Q1-K1-A1

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aacgatcttt tcgtgtatct gttgctgaaa gtgctccaag atatcagggc catgttctcg 180
caaaagagct gggtgagaaa agtgtacaaa ctacagttat aacaaattca gcagtttttg 240
ctatgatatc tctagttaac acaatcata 269

<210> 54040
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B1

<400> 54040

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gaatt 65

<210> 54041
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B12

<400> 54041

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gctctagtgc agaagggaga catcactaac cttgctcaac aatacggagt gaacttgaac 120

gactgatgag tcattcgtgt ctttttcccc ctcccccttg gagcgatggc gcaactgggtg 180
 tgatgatgat ggaataggat agcatgccat agttttggtc cggatatctgg accctccctc 240
 tgggtgtaaag actatcccaa cttaggcttg ggcttttcag ctttctttgg ctctcc 296

<210> 54042
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B5

<400> 54042

tcccgggtgc gacccacgcg tacgctcacg cgtccgggac atcaacgcaa ctagtggttac 60
 gagcatgaac atgactaggt cgggatggta cagcttcaac atgtgcttga agttgcttac 120
 aacttaacat atgttctttc gtcataagaa cttgaattta cttgtgcacg atcatatgct 180
 atctgacatg aacaaagttc ttgataaact gctaattgta atgctctgga ttatacattt 240
 ggaataaaagg gggtttttgat aattgggtcca atattaattg cccttcttaa catttgctca 300
 ttctgaattg attattgttc ttgccctgtt tctgctcatt aatctcactt cttttttttt 360
 ttactttcat ttgggtttatt tcacttgctt gtgtattttt gtccgttttt tttatt 416

<210> 54043
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B9

<400> 54043

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 gcagtgcacg acaggccctc ctatatataa agtgatgttc tgatacactt cgttcctttc 180
 atatggaact ataaataaga gcaggtaaag aatcacttct aaggaaatac agatagagca 240
 agaagcatgg agcctccgag tgagacaaca ggagccaagt actaactgat aaaaaagagg 300
 atgccgaaag ggcactctct ggatctttct aaaatatggc tgctttgcgg tatttgaaca 360
 aatggaaata ccaaaatttt cgaagatgaa aatcaggaac a 401

<210> 54044
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C1

<400> 54044

aacattctaa ggatcagcag actggcacca cgcataatgc taatgaatct tcggcgtgga 60
ctataaaaaa aaaacaaaaa aaaacaaaaa aaaaaaaaaa aaaaaaaaaa aaacaaaaaat 120
aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggcg gcccttcaaa aggatccaaa 180
cataagtacg cctgcattca acgacatatc ctttatatag ctataactta attaaattaa 240
ttgacccttg ttttacaag tgagaactgg caaacccctg attttaccba actaaatgtc 300
atactactaa atccctatct caccaacaga cataaaaacc aaaaacccca tacagaccgc 360
aattccaa 368

<210> 54045
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C4

<400> 54045

ctcggaattc ccggttcgac ccacgcgtac gcataactct acgattacgc atccgtccaa 60
tcatatcgct cacgctttcc acgac 85

<210> 54046
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C9

<400> 54046

cgggttcgaa ttcccggctg gagccactcg tccggtggat tacagctgtt actgcattgg 60
atatgactcc gtgataaggg ctgcactgga atgctgcctc aaaggcttgg gaacctccat 120
catcttctgc gtcaccgtct ctggccagga gatctccaca cgaccattcc acctcgtaga 180

ctggtcgtat ctctaacgga accgctttca gtggcttcaa tagcccgacc caggtcccat 240
 gtcttggttaa caagtacatg aaaaaggaca ttaaggtgga cgagtacatt acgcacaaca 300
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<210> 54047

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D5

<400> 54047

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 tggaagctct cgactattat ttgggtgttg tccatccata tcgtcctctc ttacagttgt 120
 tgcaggatgc tggcataaca gacctgacac aatttgctg gggccttggt aatgatacat 180
 acaagatgga ccttatectc atataccctg cctacatgat tgcactggcc tgcatataca 240
 tagcgagtgt attgaaagat aaggacacca cagcatgggt tgaatagctt cgggttgaca 300
 tgaacataat tcaagaatat ctctatggaa atattagact tctatgacac ctacaagatt 360
 gatcctcaaa ggggcatccc tgaggattag ataagccccg tgatgaacaa tttgccggca 420
 aaggcttaac tcacatttg 439

<210> 54048

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D7

<400> 54048

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 cctcgccttg tggaacttct gatgcatcgt tcaggctctg tactgattcc agctcttgcg 120
 cacggtgggt aacatcgtaa ctggggacaa catgcagact cagtgggtgtc attgacaatc 180
 aagcactttc atgccttttg aacctactga ccaccaacca caagaaaagc atcaagaaag 240
 aagcatgctg gacaatctta aacatcacag ctggtaacag ggaacagatt ca 292

<210> 54049
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-E11

 <400> 54049

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 accgcggcac cgcgcccagg cgagggcaag gatttctctgc cgctggaagg aggccccggt 120
 aagaagcatc tgaagggtgca gcagcctgaa gagcccgaaa acacagccac aatcgtctac 180
 attgggcata tcccccatgg tttctacgag gacgagatga aagggttctt taagcagttt 240
 ggggatatta agaggcttag gatcgctcgt aaccgcaaga caggaaagtc caagcactat 300
 ggattcattg agtttgagaa ccctgctgtg gcaaaggctg tagcagatga gatgaataac 360
 tatctcttgt ttgagcgcac cttgcaagtt gcacttggtg agccagagaa agttcatcct 420
 aaattatgg 429

<210> 54050
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-F6

 <400> 54050

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 tctcgcttcg cacacgtgca gccgcggacg aatcctagtg ctacataata aagtgcaagc 120
 aggcaggagg cgtacgtgtg cgagtgagtg ctgctgctgc ggcgaccgtg tgaccgtagt 180
 cgttatattgt gtgtacggaa taaagtgggtg agcgctgaga cgtgcgtgtc agcctagtaa 240
 taactaaaat aatggccgtg ttcacgtaac gtgctcgacg tatgtaccat cgtgtgtacc 300
 ggccgtacgt atgtacaagc cgagtgcaat aatacagtac tatgtgtatc attaaaaaca 360
 caccaccgaa tacagaaaag gacacatgct gctgctttag taatgctgct agaaaattgg 420
 cttgattata tcactgacag ctctagctgt tggatcttga ctg 463

<210> 54051
 <211> 427

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-G2

 <400> 54051

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 cctcatcgagg gcagttgatt ctccgagagg ctctaaaact gctgccttta tataactctgg 120
 cactggtaaa aagtgtgaagc ttgagaactg atgggagcatt agatgaccgt tcctattgga 180
 tatctctggg ctcgctcagtt tctgtagtac tagctgttcc tctgggtgttc cctagattga 240
 ttcctatcca tgatctcacg tncagggatg atgatgattc ccttgtagca agtccactta 300
 tgctcaaaaa gtgaaatgta caagaggatg ggggtctattt attggaaaac ggtgaagatg 360
 gtctagtcta cgtaagaaac atggtaaatac cggctaccct ggaacaaata ttccgtgtct 420
 cttctttt 427

<210> 54052
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-H12

 <400> 54052

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 ccatatgctg tagttacacg aagtcacgag cgattacaat gtttcttctg gcctgcatc 120
 gttgttctct agatgccctt tctttcttctg tatttttctg tctactacta ctacaagtag 180
 acgatgtttt gtccctgatga tgaatgatac agataagtca tatatatcca catatttcat 240
 ttttgtcaaa aaaaaaaaaa aaaaaaagaa aatgaaaaaa ttaaggatt 289

<210> 54053
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-H5

 <400> 54053

aaaaaacaaa aaaaaaaaaa aaaaaaaata aaaaaacaaa aaaaaaaaca aaaaagaacg 60
 ggtaaaatca aaagaaagga aaacaggacc gcctcttttag aggatccaag tttcacgaca 120
 catccttaca acgctctaata tcttctataa tgacacctaa atgcaattca ctgcccacat 180

<210> 54054
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H9

<400> 54054

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 gaatcaagga caccaccggc atggcagcgg agatgcttgc attgttcgct ctcttagctc 120
 tttgtgcaag cgccactagt ggcagcaca ttccagggca cttgccacca gtcattgcat 180
 tgggtaccat gaacccatgc atgcagtact gcatgatgca acaggggctt gccagcttga 240
 tggcgtgtcc gttcctgatg ctgcagcaac tggtggcctt accgcttcag acgatgccag 300
 tgatgatgcc acagatgatg acgcctaaca tgatgtcacc attgatgatg ccgagcatga 360
 tgtcaccaat ggtcttgccg agcatgatgt cgcaaatgat gatgccacaa tgtcactgcg 420
 acgccgtctc gcagattatg ctgcaacaag cagtaccatt cat 463

<210> 54055
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A8

<400> 54055

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 cggtaccct ggccctcacg gacctaacta gtgcggggac agagcgcaca agtactactg 120
 gccggacatc gcagacgcgc actacacagg ctgtctctac ggcggcatct acatcagtgg 180
 catcatacgg gaaggtcatg ccgtggcaat cggagttcca ggtcggacct gccgtgctcg 240
 tc 242

<210> 54056

<211> 183
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-B6

 <400> 54056

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 aataaaaaata aaaataaaaa aaattactgg taaaggaaaa aaaaaaaaaa aaaaataaaa 120
 atacaaacat aataaaaaaa aaaatacata aactaacata taaaaaaata tctacatctt 180
 ttg 183

<210> 54057
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-B8

 <400> 54057

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 atcgagcaag actccaactc ctctccgac aacgcgccag caggaagcaa ggccaagacg 120
 gcgtcttcgc gagacaagga ggaccacctg gcgagaagct gctgcacgcc gcgggccgctc 180
 tgcgagagca gcagccagct gagcgagcca ccaggaggag ccagcatgag ggccatgagc 240
 gtcgccgctg ncgccgctgg agcgcccatg gggttattcc agaacgagcc tggccacgac 300
 cagcaccacg ac 312

<210> 54058
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-C1

 <400> 54058

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 ttcgatagtg cagcagagct aagagaggaa ggcgaaaaag ctcggggtga actagcagaa 120
 gccgaacaaa agatgcaatt ggcttttaaag gaagcagaag aggctaaagc agctgaagca 180

gtacacgacc gttgcggaca gccccttctc tt

392

<210> 54061
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D3

<400> 54061

ggaattcccc gggtcgacct acggtacgcc cagcggtccg tccacgcgtg cggatattct 60
ttatctgata tatactacaa cagctgatgg agcaaggga atgacttcac acttttttat 120
tgattctgaa tctgatgcat ccttagtgta gcactttaga aggttcatta agctgggata 180
ttcttgcatg cctcacgaaa atcacttttc tatctagaga attaggttta ggtaaagaca 240
ttaccttata ttcgaccatc atgtcaagaa tagcagcatt ttagatagca taccctcgat 300
atgtcgatac cattttgttt tataaaaagt gatgtttcat gtcgtatatt tgtaacaaa 360
agaacatttg cataatactc 380

<210> 54062
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-D4

<400> 54062

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cacctcttac gaggccgacg gcaacgtcgt gaccgccaac ttcacctgct acgcccggcg 120
cgccacgggt gggtcgggct ccttcgccgc ctacgccgac gagaccaacg tcccggactc 180
caccttcacc aactacgacg ccgncgccaa cggccgcggc cggagcttcg cgtcctactc 240
ccaggaggcg aaccatgggg agaacggctt ctccggctac ggcaagaacg gcaacggcgt 300
gcgcgagacg ttcaagtcc acggcaatga gtccaacgtg ct 342

<210> 54063
<211> 275
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-E11
 <400> 54063
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 aagctcatct tatcatggtg aacgaggatt ggctcgtagt tacatggatc tccatatcag 120
 tcctgtttat ggacggcgat ggctgtacga aacttggcgg cggtgccatg gttcagaaaag 180
 gtacattgtt tggatccgac actagcatgg tgctagagac acagaccgtc ggagcaggta 240
 gcgtggcatc caatctagca caatgtggca cttgc 275

<210> 54064
 <211> 322
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-E2
 <400> 54064

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 agctcactgt gcagctgaag aagctcgctg ccgccggcaa gctgacgagg gtgaagaact 120
 ccttcaagct gccggccacc gacgccaaagc ccaaggccgc caagcccaag gcacccaagg 180
 ccgcgccccaa gccaagccc tcgccgaagg cgaaggccaa gaccgctgcg aagcccaagg 240
 cggcgctgcc caaacccaag gccaaggcca aggccaagcc tgcgctcct gccgccgcgt 300
 cgccaagcc ccgcgggcgc cc 322

<210> 54065
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-E3
 <400> 54065

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 tgacggtgag ggcgtccgcg gagacgatgg cgacggagaa gctgggtatc aaggtggagc 180

gcaacccgcc agagtccgc ctctccgagc tcggcggtccg. ccagtggccc acgtaagcga 240
gctacccgcc ctctccctc ctcccgggcg tctcggtctc tgttctcgcc cgcggtccta 300
cgctgctaca ctgcgcccgt gccctgacgg cgaatccgcg ctggtgaatg aatggatggg 360
tccgtccatc aggtggnggt gcgagaagag caagttcccg tggacctac 409

<210> 54066
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-F10

<400> 54066

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cccaaagtcc acgtcacca cctcatcga caagtacatc ggtagctcat gagcatgcc 180
tgcgtgatg catcgacgac taaacacata tgtgtatctc tagtagcctt tgcatacggg 240
atatgatcaa ttcaagcagc cagccgtctg ctactgctgn gttatatata ccatacctnc 300
atgtcgaatt ccgaggacct ttaatagggt caagtcacga attccaatca gtatatatat 360
atcaatgcct ctgggtggat t 381

<210> 54067
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-F2

<400> 54067

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actcgtccaa caatggcagc caaaatattt ggctactta tgctccttgg tctttctgca 120
tgcgctgatt cagcgacct cttcccga tgcctgcaag ctactatagc tttcattatt 180
tccccgaacc tatcaccagc cgcgtctacc gtatgtgaaa acccaattct tcaacactac 240
aagatccaac aggcaatcgc agctggcatc tcacctttat cacccttgct ccttcaacaa 300

tcatacagccc tattacaaca attacctttt gagcatttat tggcacaaaa catcatggca 360
catcaactac aacaacgtgt gctagcaaac ctagctgnct actctgagca tcagcaggtt 420
cattcattca acca 434

<210> 54068
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-F3

<400> 54068

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agctccaata ctttccacgt cgaaacgaca gcaacggaag ccgcttaatt tgccgggtcat 180
cacctcgggt ctgtcgccca tgggtggaac atgcacgaaa acacggtggt agtagtagta 240
gaatgctttc tcttgtagat cgatttggtt ttgtgaatat tgcaaaatcg gttttagtagaa 300
tccaatgtca tggtgaggcg gccgttgatg cgccagagcc ctgctttgga gtcgccgacng 360

<210> 54069
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F5

<400> 54069

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atctatcggg cgtggcgatg ctgcatatgg gggcagcgtg ttatgaatct ttgcaagaaa 120
gctacaatac tttccacgct gaagctgaca gatgcgcgtg gcaggtgaat tggccggaca 180
tcacctcggg tctgtagtcc atggtggaac catgcactac aacacagagg tagcacaagc 240
agaaagcggg ctcttgtaga tcgagatgac aatgtgaata ttgcaaaa 288

<210> 54070
<211> 206
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-G11
 <400> 54070
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 attacatatc tgatacccat agattacagg gaaatatgat gatatcgata gggaagtga 180
 aaaaagggtt aagagaaatc gacatg 206

<210> 54071
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-H12
 <400> 54071
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 tcaagtccaa cgaccccgctg ggcttcaacc tcgtcgacgt cctcgccctgg ggctcgctcg 120
 gccacatcgt cgccctactac atcctcgcca cctccagcaa cggatacgac cccaacttct 180
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 gagccatata tctgatgctc aaggattggg taatttgaac aagtgggtgca actgcgcgtg 300
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<210> 54072
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-H2
 <400> 54072
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 ttctcgcat cccactagc acttccaagg ccgcaatcct ggcccgaag gccgcgcttt 180
 ggccgggacgc ccttgctccc gttgccgcgg ccttcgcgtc ctgtccgctc ccttcctcgt 240

cggcggaggg cgacgggaaa gtgagcctcg agtccatcgt ggtggcaatc gacgacttca 300
acaatcgcaa cccctttcttc gtggctgggg tcgtgttcgt gtggctagtgt gtgatccccgc 360
tcctgcagga gtacgtcttc aagaagtaca agcccgtgag cgccatcgac gcgtt 415

<210> 54073
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H4

<400> 54073

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tgttgagtac cgctgcttcg tcggcggcct cgctgggcc acggacgacc actccctaca 180
caacgccttc agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac 240
gcagagggtcc cgcggttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc 300
catcgagggc atgaacggca aggagctgga cggtcgcaac atcacctca acgaggccca 360
gtcccgcggc ggccgtggag gcggcggctg tgggtacggt ggtggtcgtg gaggcggcgg 420
ctacagcgggt 430

<210> 54074
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A11

<400> 54074

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gtgttagcca cacctcgccc catccgaagt cccacctaaa gaagcagaga gatagaggca 180
acaatggcga aagacgggct gagcaagctc cagcgcata tcaacaggta aactcgtcg 240
accgcacatc tctcccacgc cccgtctgca tcatcagctc cactacggct ccacctactg 300
agactcacac tgcgcctcga tccacagcgc agacgagggtg tccaactgcc tgcacccggt 360

ctacgttggt aagtctagcc ttctgtacct ttcatcta

399

<210> 54075

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A8

<400> 54075

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atthttgctgg aatttgagaa tgggtctcaag aaactgtatg accaagggtgc taggaagtgc 180
tggattcaca acacggggccc cctcgggttg cttgcctcaaa acattgccct cttcggcaaa 240
gacccatccc aactggacga gctccactgt gtggcgaagc acaaccgtgc cgcaaagctt 300
ttcaacttac agctgcacgc actttgcacg aagctgaggg cagaattcga tggagccagc 360
atcacttacg tggacattca cacgatcaaa 390

<210> 54076

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B2

<400> 54076

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gccctctgcg aggccaccgg cgcggtgtg agtgaggtgg cttacgccgt gggcaaggac 120
acgaggattg gcccgaagtt cctgaacgcc agtggtgggt tcggtgggtc ttgcttccag 180
aaggacatcc tgaacctggt gtacatctgc tagtgcaatg gcctgaccga ggtggccaac 240
tactggaagc aggtgatcaa gatcaacgac taccagaaga gccggttcgt gaaccgcgtc 300
ttgtcgtcca tgttcaacac cgttgccggc aagaagatcg ccgtcctcgg cttcgccttc 360
aagaaggaca ccggcgacac cagtgaagcc ccggccatcg atgtctgcaa gggcctgctg 420
ggtgaca 427

<210> 54077

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-B8

 <400> 54077

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 cctcctgtta ctctcgggtt gcgcgtccct cgcgatcgga ggagcagcca tggccggcca 180
 cgtcctcggc ggcgtgaagg agaaccacgc cgcgcccaac agcgccgagt ccgacgggct 240
 cgcccgcttc gccgtcgatg agcacaacag gcgcgagaac gcgctgctgg agttcgtgcg 300
 cgtggtggaa gccaaaggagc aggtggtggc cggcacgct 339

<210> 54078
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C11

 <400> 54078

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 tcagcggcac ggcgttcggc gccatgggca agcccggccg caacgacgag ctccggcacg 180
 ccggcatcat cgacatccag ttcaagaggg tgccctgcaa ctaccccggg cagaaggtga 240
 cgttccacgt cgaggagggc tccaaccccg tctacttcgc ggtgctggtc gagttcgaag 300
 acggcgacgg cgacgcggtg caggtggacc tcatgggggc caactctgcg tcgtggacgc 360
 cgatgcgcga gtcttgggga tccatctgga ggc 393

<210> 54079
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C12

 <400> 54079

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-E10

<400> 54082

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 aggaatctgg gccatgactc catggcaatg aatcaaaata gtacgagccg catcatgtgg 120
 acaaccttgg cagatctttt tattcttgtc tttattgctg ggagcactgt agctttaaac 180
 ctacaagtag tgcttgaatg agatgagatt catatcatct cctgtggtgg aatgtgaaat 240
 tgtatgcgac ctttagacta attaaaaagt acaatacagc gctaagcata ctgcttgtat 300
 taaaa 305

<210> 54083
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-E12

<400> 54083

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 aggtggtggt gactttatag tgtactttgg acagtcagaa accttcagc ctcagcatga 180
 gtcccattag ttccactggt catttcttga tgctgttctg gttgataatt ttgttgacct 240
 tgcctcattg ccgtaatcta caataaggaa aaaaagctat tctttatttc ctttgggaaa 300
 tattctgacg tgactagcca agcgatagaa taattaactc ttgaggtaa gttatattat 360
 tcttaatagg gctgacatag ggaatagtta gggtttcaat gtttcatttc ctttccaagc 420
 ttcacattgc ctgtcagaat atggagtcac gtcacccacg attatgcatt gatatt 475

<210> 54084
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-E5

<400> 54084

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 ataatgagta gctttgggag gaaaaactac cgtgatgctg tcaggaaatc atggcttcca 180
 acaggttcaa tgctgaagaa actagaagaa gaaaaaggca ttgtagtacg ttttgttggt 240
 ggaagaagtg caaatcgagg tgatactttc gatagggaga ttgatgacga aaataggagc 300
 accaaggatt tcttgatatt ggatgatcat atagaatctg atgaagagc 349

<210> 54085
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F12

<400> 54085

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 caggacttct tcaacggcaa ggagctctgc aagagcatca accctgacga ggccgtggcg 180
 tacggtgctg ctgtccaggc cgccatcctg agcggcgagg gcaacgagaa ggtgcaggac 240
 ctgctccttc tggacgtcac cccgctgtcc ctgggcctgg agactgccgg cggcgtgatg 300
 accgtgctga tccctcgcaa caccaccata ccaacgaaga aggagcacgt gttctccacc 360
 tacttcgaca accagccggg ggtgctgac caggtgtacg agggagagcg cgcc 414

<210> 54086
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F9

<400> 54086

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 tgtccaacat gctcatgtgg ctgccagaac ccaagtgggt caaactgtgt gaatgaggat 180
 tcacctaata tacaagctgc aattgatggc cctggcaaata ggactgggtca gccccttgta 240

caatgcactt cccacatgtg cccgataaga atccactggc atgtgaagct caactacaaa 300
gattactgga gagtgaaaat cactatcaca aacttcaact tccgcatgaa ttacacgcag 360
tggaacttag tatcccatca tgcaaacttt gataatatca ctcagatgtt c 411

<210> 54087
<211> 370
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-033-Q1-K1-G11
<400> 54087

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atttcgtgga gacgactgga tctccggaat cgcggcccta ccaggctacg gccaaagtctg 120
cttcagcccc taagcctact caagctcctc caaatgggtg aatacggaaa cccaatcttt 180
gtaaacaatt tacttttaac gctcagggtt taatggaagt actcatgac caacttattg 240
atgctaacct acttcattca tcgacatgcc actgctcgac gtcgggggct aaactataat 300
gacgcccata gctcttgatc gacttgcata tctgcatatt gaatacccta tgctaattac 360
ggtattacaa 370

<210> 54088
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-033-Q1-K1-G12
<400> 54088

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catcgatcat gtcggcctac tgcggagagt acaaggatga gtcacatcaag aatgctgcct 120
acattggcac ccccggaag ggtatccttg ctgctgatga gtccactggc accattggca 180
agcgcctttc cagcatcaat gtcgagaacg ttgaggagaa ccgccgtgcc ctccgtgagc 240
tcctattctg ctgccctggt gctctccagt acatcagcgg tgtgatcctc ttcgaggaga 300
ccctgtacca gaagaccaag gatggcaagc cttttgttga tgcctcaag gagggaggcg 360
tcctccctgg catcaagggt gacaaggga ccattgaggt tgttggcact gataaggaga 420

54087-54088

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429

<210> 54089
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G7

<400> 54089

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tagccgcaaa acgcggacgc gaaattgaag gctctccgct acattgtaaa aggcaaggaa 180
ctctgcatct ggtacacata ctctagcata gatgccgacg cataacctac tattgatgat 240
gatcgatacg acttgcaact ctactatctc caatgtttgg ccagagacta ctcttggtgc 300
ctacgagaaa gacaagcatg actttggatt ctattgtagc ttattgaagc cattc 355

<210> 54090
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G8

<400> 54090

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actgcgctcc tgggtgctgaa gcctgggacc attggagcct ggagctccta gtccggctgc 120
gagtcatacc cagatgcatg aaaactcgtg aacgcaatag acatcagaca cttcggctac 180
tttcagcgca gagccatgcy tcagttcatt gacttctagg ctcgccaccat ctgtcagctc 240
acccagccat gccagcggca gtcccttcag cacgaaaaat acaagggtgca ctcatacaat 300
ataaataggc tgtgtacttt gcattgatgg atgattatta t 341

<210> 54091
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H2

54091-54093 "Zea mays" ESTs

<400> 54091
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tatggcacta ccatcgacta aacccgactc agtacataat gtactgcatg aaagtgtatg 120
acaaaatact gaacaataac aacgttttagt catgcactca aacaaagtcg acacttgact 180
cacaaaaagt atagaaagag ctatatcctg atgagcccta cgaatcggac ttcacaagaa 240
cctacgacac tgacgctgat gtcaaccctg catgatcaga cgatgacatt acctatgatc 300
tggtctcgac tgттаagaga caatcctatt tctatcatca agctggaaca ccaa 354

<210> 54092
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B4

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acgaaccctt ccaccgtgtg ccaaaagaag ctggaaatcg atgactacca gaacctgcgt 180
gccttttatg accgaatgat atcccacgaa gtcagtggcg atgctctggg tgaggagttc 240
aagggtatg tcttcaaaat catgggtgga tgttacaagc aaggcttccc aatgaagcaa 300
ggaatcttga cttctggacg tgttcgactt ctgctccata tggggactcc ctgcttacgt 360
ggttatggca agcgtaat 378

<210> 54093
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C4

<400> 54093
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acaccatctg ctctacaac tccacctata aaatcttgat gaatcctttc actggcacca 180

gcactttcga ttccagtacc tactttgctt gaaccatctt aattatatgc tacaacttct 240
aataccctac aagctgctgc ctaatgtgca ccaccaacaa tgtcatatgc tcaacctact 300
acacgcatta agctatcatg tctatctaca gctactttaa ctact 345

<210> 54094
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-C6
<400> 54094

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acacgcgtgg gctacgtacc tacccgaggg cagcagcggt actgtgccgg acgtaccccg 180
tcggcgacga gcaccgatct gcgctacgac tacggcaact tctactcgta caagacgttc 240
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gacgacgatg tggccaaagg ctggctctgga atccaggcga ttccaaggac ggtgtggctg 360
gacccacgcg ggaagcagct gctgcagtgg cctatctagg aggt 404

<210> 54095
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-D9
<400> 54095

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actaagccgt agcttgacag atatgctgat gtccatgttg acattcgact gagatgaaca 180
tatacacgaa tgcaattaac gtccacttac atacatctga tgaatcctaa gatgacatat 240
gtcttacacc ttctgagatt ccccttttaa cacatccaac ttgtgaaaga ccatctttat 300
acgccaccat gatctcttgc agctaataa aatacacatg gatcacgatt aacacgaaaa 360
gatgatgaa 369

<210> 54096
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-E1

 <400> 54096

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 ataatttttc ttatattctt ttttcatttt taattataaa atttttaaat ttcttttttt 180
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<210> 54097
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-H2

 <400> 54097

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 gaacagcatc cggtttcaag tcatagtagc ctcttatatg ctcacggaaa atacctctat 180
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 gcaacggttg gagtggctgc tgaccacccg agaatcgtgt gcagtcgacg cgtgttccgg 300
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 acgttcgtaa cggaagactg ggagatca 448

<210> 54098
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-H4

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cctctgggac ccctttgagg gcttccccctt cggctccggc aacagcagca gtctcttccc 180
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ggagactcca taggcgcacg tgttcaaggc cgacataccc gggc 284

<210> 54099
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H5

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gtactcgtgc atgtacaac ataactttcg tatactggca actaaattca att 113

<210> 54100
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H8

<400> 54100
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<210> 54101
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H9

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tgctcatgga ggcgctgctt gcggcgctg ctgaggcagc attcgctctg ggctacgttc 240
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 aactgtcca caactgacgc tgcttcaagc gaaacccgct taagtggctc gaccctgacg 360
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<210> 54102

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A11

<400> 54102

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 ggatcaaatt ttttgaaacg agtgcgaaga caaacctgaa tgtggagcaa gtgtttttct 360
 acatcgcacg tgacatcaag cagatgcttg cggagactga ttcaaaggca gatgacatgg 420
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<210> 54103

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A12

<400> 54103

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 atacttgact gtgcatatca ctgtcccaat ttcaggaggt ctattatata tggaccaccc 180
 attgacctct gcacccttca taatacgcaa cataatcaaa tttcatgtgt tcctcacaca 240
 caagcacact ttctccacg tgtaccggaa gaagacgaca gatgatctca tctcgatgcc 300

gtatatctag actctattca gctgcacgct gaagatactg tactcactgg tgaagaccaa 360
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<210> 54104
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A7

<400> 54104

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tatgacaaa gtgttacagc aacatcttta gggcgccctg caatacatga agtcgtatgg 180
atgacaagca accgaacctg aagtcaactc gctgatgcac atcatgaatg ccagacgcgt 240
gctaacgtcc tgtggatcta cgaagcatgc ctgccactga ctctgcttgg cacattcatg 300
aacagatatt ggagcgacat ctggacgagc caacctttct acttggcaac atgggaagac 360
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<210> 54105
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B12

<400> 54105

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acactatcaa acactcctac tacagatact ttcacttcta tataccattt actaatacta 180
tatacaatct tatcctccca ccaccatact actaacactt actaacctaa ataatcatta 240
tcatcatact actaactata ctcaaccata tcaatatcat acctactata tatctatacc 300
aagttctata cctacctcat actctactat aacatacata tccatataca tttacatata 360
ctcaaatact tatatactaa tgaactattc aatcattatt attaaacact cacatagagc 420

tttaacttct tcacaaatat cttaaattatt taaatccact ctttattcaa tactcatact 480
t 481

<210> 54106
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B7

<400> 54106

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tctggcatac tattctcgca atcgttgggg ggttcagaat gggactgaca tcagagtaat 120
atgtggcata ctttctgatc ctctgtactc gagaggattt tgttgtggat aagccacttg 180
ctgcctttgt ttggtgggta attgcttcga gcataagaaa cagcgtatgc tgctataaac 240
gtctttttgc aacgcgaaaa aaaaggctac ctatgaaaaa gaacaacaat taatgaagtg 300
cacagtggaa agaattaatg gttgc 325

<210> 54107
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B9

<400> 54107

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tattccgaaa gccgaaagga ctctgtggtt ggggtgcggcg gatggcgact tcgtcgtcgt 120
tctctggccc cggcgggtcc ccggccact cgtctccggg aggcggaggc ggcggctgcg 180
gcagcgggtg cgtgggggtcg taccaccacc accggtcgcg gttcggcgac acgacgctga 240
ccaaggtgtt cgttggcggg ctggcggtgg agacgccgtc cgaggggctg cgccagcact 300
tcgacgtcta cggagagata ctcgaggcgg tcgtcatcac cgatcgcgag accggccgct 360
ccaagggcta cggtttcgtg attttccggg acccgacgc ggcgggtcgg gcggtgcata 420
accgaaccc ggtgatcgcc ggccggcgcg ccaactgcaa 460

<210> 54108
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C10

<400> 54108

gggtctctgat tcccggggtcg accgactcgt ccggaatcac agtcagtccc atcttacctt 60
gattctagac caagaacctg aactcatctg acctgcttca ccaactggcc atgcagcact 120
cccggcatac catcaccagg aggatgagct aggatagcct acattaccac atgcatccat 180
tcgtacataa tcaagcataa tcacgtttct tgcattcaac tatataaagg aagtctaatt 240
atatatctac agctggctgt aaaaatgctg ttatgtaccg caccacttcg attttttttg 300
acactccact tgtgaatgat gtaaactctga ttgaattgaa ttatttgcaa tttggaaaaa 360
aaaaaatatt tatttaataa ttaatatcc aa 392

<210> 54109
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D12

<400> 54109

gaattcccggt ttcgaccgac tcgtccgctc catgtataca tcaacgacca tcctggctac 60
aatctacaac ttctcaaacc tgggtcagat ttacctcact cgtgtctaca tctacatcat 120
catattaatc accatcagcc tctaccactc aactagcctc ctggaacatc attcattaca 180
cactaccatc tctatcaaata tactcagcct ttcatcaaga ctcaattctc ccaatatata 240
c 241

<210> 54110
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D6

<400> 54110

cagctatggtt tgccataggc tctcatgctg atggatactg tgagaatgac ctccaaagcc 60

tgatgggtga ctgcaagaca tacgtgatgt tcccagctaa tccaaaggtc cctccttcgg 120
atgcttgctg tgggtgcatc aagaaggcaa acgtttcttg cttgtgctcc aaggtcacca 180
aagaaactga gaaggttgtg tgcatggaga aggttgtgta tgttgctgag cagtgtgaaga 240
ggccatttga gcatggcttc cagtgcggaa gctacaaggt tccagcaaac tgatgatatc 300
gcaagagggg agcgcttgac gtaagcttta gatttcaatt gctgcagccg atcaaccttt 360
ttaggggtgt ataatatgaa ctcaatgttg agactaatg 399

<210> 54111

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E1

<400> 54111

aattcccggg ctgcaccac tcgtcctaaa aaaaaaaaaa aaaaaaaaaa aataaatatt 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag attaattaaa aaaaatcaat ataacatatc 120
ccataacctc atacactttc atacttcccc ttttctcttt cattctttca tctctattct 180
ttctctttcc ctactttttt caatttcttc tctattaaat ccctttccct cccctactta 240
atttctttc catatatcac tctttttcca acttcttttt tacccaatct tccttctcca 300

<210> 54112

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E6

<400> 54112

gaattcccgg gtgcaccac gcgtacgcc acgcgtccga aaaaaaaaaa caatacttta 60
tcatttatgt aatatctaataaataatggg aaagtaacaa acctataacct cccaaaattt 120
catctgactt acccttatca tacccttaac ttaataacct actctctcca aatcttatat 180
tataatta 188

<210> 54113

<211> 253

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F12

 <400> 54113

 tcctgaattc ccgggtcgac cgcactcgtc cgttcctct tgtacacctt cagttcctcg 60
 attttctact ccataaacac aaatagggcg cgtgttattc aacctgttag actccaaaaa 120
 cactgatctc gactgatgaa cctactacat tcacctgcca aaccgcatgc tcctcattgt 180
 acctactcat ccatagcctc ctttagatac aaccacaca catgctgctt attgcactac 240
 atgacatcaa ggc 253

<210> 54114
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F2

 <400> 54114

 aattcccggg tcgaccagg cgtacaggac acgcgtccga gacaacgaga gctcggcttc 60
 tatatttact tatgcgcgat cagatggtga agctgctggc gatgcaagct cgacgcagca 120
 agtggtaaaa gactttcatg tccatacata tactgctggc gaaacataag aagcatgtga 180
 ggtagctcga aacagcatag aacttcattg aactgctctt tcctcttatg ctgagcatga 240
 tgctctaaag gatgactcga cgaccactct catgcaacac tgctaccgat ctcagcacac 300
 tctgcatatg attattgata gcgtcggaga caatgaagct gcgctatctg aggtctagag 360
 cgtgaacgac gagatcgata gcgtattat 389

<210> 54115
 <211> 489
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F9

 <400> 54115

 tccggtcttg aattcccggg tcgaccgact cgtccggtcg cagctagcct tgagggcaag 60
 aagcttttat ctttcactag aatatcatca acagtcgaga cagctatgga ggatgcgctt 120

cttegtatatt tgaccccaag ggcgtctatt gacatactga gggacgtgca cgctgccaaag 180
gagcgtggga ggccatatgt tattgttttt gttgggggtga atggagttgg caaatccacc 240
aatcttgcaa aggttgctta ttggcttctt cagcataacc tcagtgttac acttgacagca 300
tgtgacacct tcagatctgg tgctgttgag cagctgagaa ctcatgcaag gaggcttcag 360
atacctatat ttgagaaggg ttatgagaaa gatccggcag ttgtagcgag ggaggctatt 420
caggaagcaa cccggaacaa atcagatggt gttctggttg aactgctgg acgtatgcaa 480
gacaacgag 489

<210> 54116
<211> 156
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-035-Q1-K1-G12
<400> 54116

attcccggt cgaccgcaact cgtacgacca aacctaatta acatctctcc tttagtttgc 60
ctaaaccagc ttcataattcc cgcaagctta ttattaaatc accgaccacc acaacaatca 120
caacccttct tcctctacct aactctccac cttcat 156

<210> 54117
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-035-Q1-K1-G8
<400> 54117

aattccgggc tcgacctacg cgtgcggccg tacgagacgc atgcagatct ttgacattac 60
cttgactggc atgacaatca gccttggggg ggagtcctca gacaccattg acaatgtcaa 120
ggcaaagatc caggacaagg agggcatccc acctgaccag caacgtctca tctttgccgg 180
caagcagttg gaggatggga ggacccttgc tgcataccac ccctaagacg caggatcaag 240
tccatgttgt ataactacct agaggtgcca ttgcgagtgt aacggtggaa gtgcaagaag 300
ctaacagtga agccgtgggc agctgccaca aggtgctc 338

<210> 54118
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H10

<400> 54118

accggtccgc agtttccggg tcgaccgcac gcgtccgccc acggtccgg gacaggagga 60
cggacgccag ccgcccagca gccaccgcta gtccgggtgct ccgctagccg ctagggcagg 120
gcaagtgtgt gttgtccgcc agcctgaccg cctctccgcc tccgggtgctc acccagtcgg 180
ccagtcgccc gcctcgctcg ccgcccgcctc gccgcgcgca gcgcgctgcc aggaaatagg 240
ccgccaggcg cccgcagtcg ctgtccggcg tggtagacgtc cgcctcaagc tgtcagactg 300
ccgctcgacg ctcgttacgc acgccgtcag cccgctagtg taaggatcag aaagtctgcc 360
acaggcaaca agtgaggaa ctagcctagc tacgaggatt caaggaacat gggagaaaaat 420
gggtacaact aggacaacag c 441

<210> 54119
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H12

<400> 54119

gaattcccgg ctgcaccgca ctgcctctcc cacacatact aatacttata acctgggatt 60
accactgcta ctctccctac ctaggctagt cacctacctc atgcgctcac tgctcttcat 120
gcaatttcct tctactaccc tacctatatt tacaagcttc tccttcacaa cttatgctac 180
aacagcttca atccaattac atttttcgca aactatcttg accccac 227

<210> 54120
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H4

<400> 54120

aattcccggg tcgaccacg cgtacgaaaa aaaacataaa agaagcatgc aaaaatttag 60

aatagaacca agaatggcaa gacaatcagg cttgaaagag gagtactgag acaccattga 120
 caatgtcaag gctaagatcc aggacaaggc gggcattcca cctgaccagc aacgtctcat 180
 ctttgccggc aagcagttgg aggatgggag gacccttgct gcataccacc cctaagacgc 240

<210> 54121
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-H7
 <400> 54121

tgaattcccg ggctgaccca cgcgtacgag tccagttata aatactctcg caaaaggctt 60
 agatatacgc ctcaaccata aggttttcggg aattggctgc caccggaaca gggtagaggt 120
 tactgtaagc agagggcaaa cattcgacgc agacgctgag aggacactga tacgctgggt 180
 gtactgaaag tgaaaacat cagatttgag ccgaggctgg catagtggaa agaagaggca 240
 atcagagaac tgacgactga agttgacaac aaaattcgtc tgcactttga ccactttttc 300
 tggcctaacg tggatttcct cggcgtcgaa acctctacca cgtatgggtg cagctatttc 360
 ctgaacctgg acaaggcaac aggccaccct gtgctagtta catgcctgct ggccgacttg 420
 ctcgtgacat tgagaagatg tcagatg 447

<210> 54122
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-036-Q1-K1-A3
 <400> 54122

tccggaattc ccgggtcgac cagcgtccg cccacgcgtc cggcacatac tgtgctgctg 60
 ttaccattag aaatataata acgtatgtga ggccggtgca tatatatatg catcatccat 120
 ctacctgcgc ggtgcaaaat tctgaataaa acctgcataa aacctgattg agcacaaca 180
 acagcagctg cagctgcaag cccacgagc aagaggatcg ccctggtgac ggtagggaac 240
 aacggcatcg ggctcgagac gtgccagctg ctgtcttcca gcggcgacat ggctgctactg 300
 accgcgagga accaggcgag gggattgg 328

[illegible]

<400> 54123

<210>	54124
<211>	444
<212>	DNA
<213>	Zea mays

<400> 54124

$\langle 210 \rangle$	54125
$\langle 211 \rangle$	427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B7

 <400> 54125

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 tgccgcccggg tccacgaggg ggaaagtaaa cattagcatc gtttctctccg tcgtcgatag 120
 agctctgttc gtctcccctc gtataaattg ccgaccaccg ccgcaccttg aagaccgccc 180
 cgctgttcgt cgtgggtggcc cgtctcatgc aacgactagt acgccgatcg cggcctcaaa 240
 gacctcccgc caccgctatg acttgaagcc ctctcccatg ccaatcaaga ttcattggtga 300
 acgacatcca taacagagac gggattgtcc tcggaacctc aagaggaggg catgacacta 360
 ctaaaatcat tgattgtctt caggaccgtg atactaacca gatttatatt attcaagatt 420
 cgatgtg 427

<210> 54126
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C1

 <400> 54126

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 gccgcagcag gatattgtctg ggcgaggcgg gaccagggtg cccggtggca atcaaatcta 120
 caaccctttt gcaccaacgg ctgcggcgcc ggctcagaga gcggaggctg accctgagta 180
 cgaggatctc atggcatcag ttggcatgaa gtagcgaaga ctgctggctg gccctgatc 240
 tgtctgtggc acaaacacag aggcttcttc ctattgcttg ccaagatgtg cgggttacta 300
 atctcctcca atgtatctct agatggtact gaattccgtt ccatcataga cagggtgcat 360
 gcttgaacga aaacataaaa taaaaaataa actagtggac cttgtttgag ac 412

<210> 54127
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C10

gaaagactcc aagacccttc tctttggtga gaaggaagtt gctgtgtttg gctgcaggaa 360
ccctgaagag atcccatggg gtccggttgg cgctgaatat ggtgatgagt ctactg 416

<210> 54133
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E7

<400> 54133

tcggtcctga attccccggg cgaccgcacg cgtccggtca caactccggc cacatcagca 60
ttaaactata ccctgtatac atcccacacc atgaaacgtc tcatcattaa cttccacgcc 120
atgatacctc acatccatat acctaatac ctcacgatca tgatctctta gatgatctaa 180
ctacaacttc actcccacgt catctacccg atcatgcttt aacatcattc actattcatt 240
cacaacctaa tggacatgac catttcaacc attttcttac agcaaccct 289

<210> 54134
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F10

<400> 54134

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tggctcacta caagatcgtc ttacggtga ggcagaaaa aggaaagttc ttgattggcc 120
cacaagacta tctgtttgca ttgggtgctgc tagagggcta gtatatctgc acaattttgc 180
agggcgttgt atcatacaca gagatattaa atcgagcaac atacttctgg atcacagcat 240
gtgtggcaag gtagccgact ttgggttttc caagtacgca ccacaggaag gtgacagcaa 300
tccatcaatg gaagtgaggg gaactgctgg atatttggac cctgaatact attccactca 360
ggtgttatca accagaagcg atgtcttcag tttcggagta gtccgtttag aaattgtgac 420
aggaagagaa cctcttgatg tcaaaaggcc tcgtcatgaa tggagct 467

<210> 54135
<211> 366

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-F5

 <400> 54135

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 gcctaacatg atgtcaccat tgatgatgcc gagcatgatg tcaccaatgg tcttgccgag 120
 catgatgtcg caaatgatga tgccacaatg tctactgagac gccgtctcgc agattatgct 180
 gcaacagcag ttaccattca tgttcaaccc aatggccatg acgattccac ccatgttctt 240
 acagcaaccc tttgttggtg ctgcattcta gatagaaata tttgtgttgt accaaataat 300
 gagttgacat gccatcgcgt gtgactcatt attattaaca ataaaacaag tttcctttta 360
 tcaaaa 366

<210> 54136
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-F9

 <400> 54136

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 atttgtcttt caccacatgt tttccttgca tggagtaata tacgatattt atgtaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagaa aacttaaaaa 240
 aaacataaaa acgataaaaa taagggtgact aaaataaaat acagaaacac aaaattcaaa 300
 aaaaattaaa actagtaaaa caccagtaga cacctaatta aatggccaaa ccgaatattg 360
 atcataacaa atacttacgt caaaacaaag agttcttcac aattggcctt ttcc 414

<210> 54137
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-G7

 <400> 54137

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gagggactat gtgggaaacg tgcatcaaaa cctactgctc atccaacact gtgcctccgt 120
gataggcaac tagctgcgca atttcaggaa atccctctgg atcttacgat gatccgggca 180
cataaggctg gatttgagat cctgaaatct acgattgctg agaaactacc caatgatctg 240
taaggaatag agtgctcaat ggagaagctc tacattctta tcgatgagat ctacaaatac 300
acccatgatg tcgtgtaagg acgcgttgca cctgattaca caatctcaca agcgggtctct 360
gaatctgtag cttcaatg 378

<210> 54138
<211> 142
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-036-Q1-K1-H1
<400> 54138

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa tttaaaataa aaaaaaaaaa aaaaaaggac 60
aggggatggt gactgatcca aacttacata ctctagcatt cgacaataat aaatctgata 120
tagagttact taactacaat tt 142

<210> 54139
<211> 449
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-036-Q1-K1-H3
<400> 54139

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caaagcctct cgcagaccct cagcaattag cagcaagcag gcctaaccag tcacaaggaa 120
caaaaactga tagagcaagt gcacaagcat ctgcaattaa aaatgaaggt tcacgatcca 180
gatgcaataa agctaccatt ccccatcga gaaacaaagg cagcaagaag acgcaacagc 240
aacctaattg acgtgttcat gcgatcaagt tcccagtaga gtagcccatt cgtaggtaat 300
ttattgggta agtggaagtg tctcttctgg tgaacagtct cttcttttct cctttccaaa 360
tgaaattggt tattgtcagg attgttctaa tttggactgt cccgatccga ggttttgggt 420

cgccggccat tggtagtaga aagctacag

449

<210> 54140
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H7

<400> 54140

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ttttcgacga ccaaatacatc cggggcgggc actttttcca catctacaac aacatttacc 120
tccacttcat gaaccacaac aca 143

<210> 54141
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A10

<400> 54141

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tattaaaaaa aactaaaact aaacaaattg aggactttac aatataggca ctactatctc 120
aacttactac cttatctaca ctaacatcat actttatatc actttcctac tttttaacac 180
cttcaacata ctaaa 195

<210> 54142
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A11

<400> 54142

cccacgcgtc ctagaagga gtagaacagg agttcgatgg tgatgaggaa gctgaagtgg 60
ctggatagat cgagagagtg ttacaggtt ttgagggtca acacagcctg atgttatagc 120
aacttcgcac gtacgggtatt gccgatcctg atgtatgcag gaggcaggct tatatagcag 180
aggcgtcaat agtctgaaat aacatccgtt gcactagtat ccgaataaag tgacagtga 240

ttgatttttt attttcatta aattttctgtg taaaaaaaaat atactccaag cccgatgatg 300
taac 304

<210> 54143
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A7

<400> 54143

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gaggggtctt caactttaca tgatccaagc ttactaactc ctgcatacaa ctgtatcaac 120
tctcctatat tgccacttaa attcaattca atgtcctgac cg 162

<210> 54144
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B5

<400> 54144

aagcaacctg ggccgggaag atacattagg ctctgtgtcac gttgggttcg tgctgggtgg 60
gttgacggtg tattgggtcat gtattatgca tttgcgctgg tgttcgttgc tgtccaataa 120
agatagaaca cgttctcgcc ttttgtttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaacaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa agataaaaaa aaaaaagggg 300
ggcccctttt aaggggccca ggtttacttc cccgtatttc caacttaaaa cttttttttt 360
ggggcccca aatttaattt caggggcccg gttttaaaaa cttttatatt ggaaaaacct 420

<210> 54145
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B7

<400> 54145

aagcggcctg gcacacgaag atccattatt cttctgctac atccgacaac ctctggggga 60
gtgaactttt tatatggcac ttgtaatacg tcacaaactc ctatcatggc gcccttcact 120
ctatatgata cacgggtctta ggcgatctct tactactcct tttaatccat gtgcacaata 180
cacctgctca ccagctaata aacatggcgt acatgcctgt tctgccttgc acacgactac 240
acaccttcat gatcttacct gcgctctgat aacagggttg tcgcctaaat tacgatatgc 300
tcgatgtgcc tttcttcaca t 321

<210> 54146
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-037-Q1-K1-D12
<400> 54146

tccggaattc ccgggtcgag ccgcgcgtca cccaattcc aatctaccg gccgaaccg 60
cctactgggg ctgcatgggt cccggacctt gagccctgcc ataaccgggg gagcaccgt 120
cgtcgtcgtc atcgcccacc accaccagt ctccttcatt cgtctcgtca tccggggcag 180
ctgacgactc atcatccac gctctgggca agcgccccg ggaccgggag ggtgacgatg 240
ggagaaactg ctgcaacgcc aaagtgtggg ctccaagag catccggata gactacgtgg 300
acgatgttgc caggagctca atctgggtccc tcgtcgggat caaaggcgac cagacgaagc 360
agcaggacgc atcatacgac cactccggtg ggcacagcaa gc 402

<210> 54147
<211> 360
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-037-Q1-K1-E9
<400> 54147

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ggctgactta cacatgcggg cgacttcata actattctat actaccacct aacttcaatt 120
cactgcccac ctttttacia catcatcact ctaaaaaccc tgtcattacc caactaaatc 180
cccttacacc acatccccct ttatccaatt aacattataa cgaatatccc tccaccaatc 240

tccctatcaa cacttcccca aactaaataa cgaattagac tctcccttta accgatcatt 300
aacctcaaca tgtctttag tag ttacacgcat acttaccctt acacttgcaa tcaccctaac 360

<210> 54148
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G4

<400> 54148

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acacatgttc aaggaaatca gcaatgctta gtgatggttt gtctgatgat gagaagcgat 120
caatctatga taaatatgga gaagcacgtc tgaaagggtc tggcatgggc acaggagatt 180
actcaaaccg gtttgatcta ttcgagtcct tgtttgaagg attcgggtggg atgggtggaa 240
tgggtggcgg tcgtgctgcc cgtaacagac caatgcaagg tgatgatgag agctacaatc 300
ttgtactcaa tttcaaggat gcagtgtttg atgtcgagaa agagattgag ataaccagat 360

<210> 54149
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H1

<400> 54149

gtttatgtga tgtggatcta tcattgtgca atactaatta aatttgtata aaaaaaaaaa 60
gaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaataa aaaaaaaaaa 120
aacaacaaaa acacaaacat acaacatcat aactcttata tcatgacacc taaattcaat 180
taactaga 188

<210> 54150
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H4

<400> 54150

tcccggaatt cccgggtcga ccgacgcgtc cgaactttat gagcaaaaaa aaaaactgcg 60
 ttttattcac gtcaatcatc gcctccttcg aggacgtcat atatacatgg gcagtgggca 120
 ccgatgatat acaccatcaa actgaataac ctccccggga aa 162

<210> 54151
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-H7
 <400> 54151

taccggtctc gtgaattccc gggntcgact ccacgccgtc ccggggccat gcccaaccg 60
 accccagcag cgcctcattc ttcgcgcggc aaggccagct ggtaggatgg gccgcgaccc 120
 atggtcggat taccaagcat ccagaaggga gaaagcactc tccagcctgg tgctccgcct 180
 caggggtngg catgcnagat ttttgtgaag acatntgact ggcaagtacc attcaccttg 240
 gaggtgngag aagctctgac atnccattga caatgtgaag ggccaagaat ccaggacaat 300
 ggagggcatg tccccagac cagcagcgtc tggaatcttt gcgggccaag ccagctg 357

<210> 54152
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-H9
 <400> 54152

aattcccctg tcgaccact cgtcctccca cgcgtccgca ccaccatcta aaacgtgttt 60
 tctacccatc ccattatctt cccccgtgct acagtcacca cattctgatc cgggctanac 120
 tcctatatcc ttcattctaa ccatctccat tccttcgatt ccatccatcc ctaatatctc 180
 aacaccttcc actctcttca tacatctctc tctttctcta ttacgactca ttatccatct 240
 cttctttact tttactcttc ctctcttct tctcttccaa cgtactaact caactcacct 300
 ctctcttcaa catacctttt ctatcccata acatctttca atacatctcc ttatctacaa 360
 ttattaactt a 371

<210> 54153
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-C7

<400> 54153

taccggttcc ggaattcccg ggntctaccc acgcgtnccg gaggtaccgc aaggaggttg 60
 tagagagagt actttaatgt ggacataaca caacatacac tttctgagcc agatgaccc 120
 gcgacaagga agcatcggat tgaaaacata ttcaggctct gtggcaacca tcgtgaaata 180
 gctaagaaac caaagggtcca gtcaccagca aaggaaatgt tctgcagcga gaacaagtct 240
 ccagcaaagc aagtgttttg ggatcagaac aaatcgatcat caaaccaaatt ttttggagat 300
 gaaaacaagg agccgtcggc atgggggtgct atagagaccc ccatgtgcga tgtagagtg 360
 actgacagcc cagtgtcttc tcagctttct ccaatcgat gccaaagtg 409

<210> 54154
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E5

<400> 54154

cacccttccg aaaaaacatt ccgaaaaaaa tacatttttt tcattcaaaa acctagaaac 60
 acaccacaag ggaggttttc tcaaagaggg gggggcgcta aaaaaaaca aaaaataata 120
 cgggggcggc cgctctaaag gatccaagct tacttccgcg tgcattgcaac gttatagctc 180
 ttttattggg ccacctaaat tcaatta 207

<210> 54155
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F2

<400> 54155

aagcgaatca cattatcaac aacctatcaa caatggctac caagatatta tccctccttg 60
cgcttcttgc gctttttgcg agcgcaacaa atgcgttcat tattccacaa tgctcacttg 120
ctccaagttc cattattaca cagttcctcc caccagttac ttcaatgggc ttcgaacacc 180
cagctgtgca agcctatagg ctacaacaag caattgctgc gagcgtctta caacaaccaa 240
tttcccagtt gcaacaacaa tccttggcac atctaacaat acataccatc gcatcgcaac 300
agcaacaaca attcctacca gcaactgagcc acctagccat ggtgaaccct gccgcctact 360
tgcaaca 367

<210> 54156
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F5

<400> 54156

ggcaaaaaaaaa aatgcggcga gccgttttaa aaagaaccca gtttacttgc gcgttcttgc 60
acaaatatta tctttcctaa aacgccccct aaactcaatt cactccccct tggttaacaa 120
cgccttcacg gaaaaaaccc tgtcttcacc aaatttaatc ccttttcccc acatcacctt 180
ttccccatct gtattaataa taaaaacccc cccaaatatc gcccttccca acaattgccc 240
acctttaata ccaaattgga cccccccacc atgactac 278

<210> 54157
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G10

<400> 54157

ggaattcccc gggggacaca cgcgtgggtg ttcacgatcc aagcttacgg ctttttgcgt 60
gcgacgcgct aaatgttcta tgggtggcacc taaaggtagt tcggtt 106

<210> 54158
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G6

<400> 54158

caccggttcg gaatttccgg gtcgacgcca cgcgtccgcc cacgcgtaac ggagacgcga 60
 tgggtgcggt cttccgctgg cgggtgctat tagtcgctgt gtacctacc gtgacacata 120
 tccctttttt tggagcgctg gactactcag gcaaatctgg catcgcgacc tttggcagct 180
 gacttagtcc cgattgttgg gctgtaggaa acaaacaga accggttcga ggtccctaga 240
 tctctgcgta gaggcggcga ggcacccgaa tccggcaaaa aagggttcgc ggtttgcctt 300
 ggttgggagg agcgcaggag cccggcgctca aaaccaatc ttggcgcccg ggctgccgtg 360
 cgccatcgtc ttctcccccc tgtggtgttt agggagagga gaaggccggt gga 413

<210> 54159

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A11

<400> 54159

accggtcctg aattcccgtt tccgactcag acctaccgt ccgctgacct attaagggttc 60
 catgtcggat tccttcacac tactatggtg cttcaccgag cgatgggatt gatcaagtgg 120
 ctacaggtga atatgcacag cctgctctag agatacatca tctgctgcta ttcaatgtct 180
 gaaatgctct tgtctgccct aggcacgctc atctagacaa ggaaacagtc taccgtaata 240
 tcatacaccg taatacatat gttatgaagt tacagcgtag tgatactgaa gatccattaa 300
 atg 303

<210> 54160

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A6

<400> 54160

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaag 60
 gaaaaaaaaa aaaaaaaa 78

<210> 54161
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A9

<400> 54161

tcctgaattc caatttccgg gtcgaccac gcgtacgaca cactcgagaa ctccatttcg 60
atctcatttg aaatcaaccc atcctcgttt cctcggacta gcagcctgtc accctcatgg 120
ccaagatcaa gatcgggatc aatgggtttg gcaggatcgg aaggctggtg gccaggggtg 180
tcctgcatag cgacgacatc cagctcttcg acatgaacga ccccttcac atcaccgatt 240
acatgatcta catgttcaag tatgacactg tgcacggaca gtgtgagcac catgaaggtc 300
aggtgaaaaga ctccaagacc cttctctttg gtg 333

<210> 54162
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B5

<400> 54162

aaaaaaaaa aaaaataaaa aaataattat aaaaaaaaaa aaaaaaaaaa aaataggagg 60
gataatataa 70

<210> 54163
<211> 96
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C1

<400> 54163

cggtctcgga attcccgggt cgagccacgc gtccgctcac gctatctctc tcacgctcac 60
tttcctttca cggtgactgc caattcagtg gggggg 96

<210> 54164
<211> 322
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-039-Q1-K1-D10

<400> 54164

acctgtcctg aattccctgg tcgaccact cgtcctacca cacctacgct aaccatcacg 60
 cactcccttc taccattcaa cccttacact cagggcggac caaccttagg tanccacatt 120
 tcacaaccct aacttcatat actacctaact tctcactttc aataacttca tcaatatcac 180
 caccaaattc acctacatca ccctacaaca acatctcaac tctctccaaa cacaccttac 240
 atatcacact tgtccataat atcaatcttc tatacaaata accaacactt cacatcattc 300
 ctcatcaaag aacaccactt ac 322

<210> 54165

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F9

<400> 54165

accggacctg aattcccggg tcgaccacg cggtcgttgt tcaaagataa cgcattgtgac 60
 ctaagatgag ctcaacgaga acagaaatct ggggtggaac atacagggtta aagctcgctg 120
 gattatgatt tacagctcga atactaaccg ggtacgcgtg gcctatcgat cctttagacc 180
 tcaagagttc gaagcttgag gaggacagaa cagataccac actggataac tgtgcttggtg 240
 tgcagccaat ctgatcatag tcgacttaag cataactgat cctccagatg attagc 296

<210> 54166

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A10

<400> 54166

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 ttattttcaag cggccatattg ccaatggaga gctgattatg a 101

<210> 54167
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A9

 <400> 54167

 aaaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aagggtgac aatttaaagg gtaccaagct aaaatacaca tgcattgac gcaatcagct 120
 cttgtataga gcaacctaaa tgcaatc 147

<210> 54168
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D11

 <400> 54168

 aaaaaaaaaa aaaaaaaaaa aaaataaata aaaaaaaaaa aaaaaaaaaa aaaaaagaag 60
 aaagataaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaaa aaaaaaaaaa aaaaaaaaaa 120
 agggggggcc tatttaaagg atccaagctt aggttcactg gcatgcatga taaaactgct 180
 ttaatagggt cacctaaata aaattaactg gctgaggtat aaaa 224

<210> 54169
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D3

 <400> 54169

 attgattgag atttatctca aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg aaaaaaaaaa aaaaaaaaaa ggggcggccg 120
 ttctagagga tccaggctta cgtacgcttg cttgcgacgt aatagctctt ctatagggtc 180
 ccctaaattc aattcat 197

<210> 54170
 <211> 249

<400> 54173

ggacgaccgc actcgtacga aaaaaacaaa aaaaaaaaaa aaatataaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaggag 79

<210> 54174

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G10

<400> 54174

ccggtccgga attgccgggt cgaccacgc gtgcgctcct ggtgttttgg atgcaattgc 60
tccacagttc atgacaagaa aaatttgggc tgttgcgta ccccgtaag tgcgaactcc 120
aaccaggcct cttaagttag agatagctat atatcctgaa ttacaggctt ctaaaccacg 180
ttctgtactt aaactatgga aatgtcaa atgagcaacca aagcttaatc aggctgaccc 240
ttccattatg atttttgaca aaggaacaaa gactagatac aagatcttac cggcctatga 300
aggtgacaaa cagcagcttc aatggtttta taatgcatgt tggggcatgg cccagggtttt 360
gaacacgggt ccagtagcac cagcaaatt 389

<210> 54175

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H10

<400> 54175

gggtcccgat ttccccgggt cgaccacgc gttcgtcaag ccgagaacgg tgtcaaggct 60
gcatcagctg gcgcagacgg agccagccga cttgagctcc aggaaagtag cacgggcaac 120
aactgccacg acctatcctt caaaacgatc ctcgagacga cgactacgac catcgcagcg 180
gacgcgtgcg atgaagggaa cgaccaagac gagtgcgtgc atacgcagct ggttggtgac 240
gcgcaccgtc gctacttcta ctcgcagcac aagggcgagc gcgcaccgac agcgacgatg 300
acggtgcatg ccgccgctgc atgaaatgat gagcggcaga cgagtgatta aatgatggac 360
catcc 365

<210> 54176
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H4

<400> 54176

gccactgtgg catgctggca aaaaaataat taaaaaaca agaaaaaaaa aaaaatggaa 60
aagggcagac gttctagagg atccaaagct taagggccg tgcattgcgaa ggtttagctc 120
ttcggtaggg gaacatagaa tgaattaact ggccgatagt gtacatcgtg ttgaatggga 180
aaaccctcgc gtaaaccagc ttaactggca acaccatgtg gccacttagc at 232

<210> 54177
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A11

<400> 54177

gcattctcga gcatagcttc tctgcctctc tctccctcc tctcctctcg tccactcctt 60
tgtccaaagc ttcgagatgg ctcagcagca gaagggtgtg gtcagggttc caaccatgac 120
agatgacaag atcaagcaga aggccatcga agctgttgcg gacatttacg gtattgactc 180
catagcagcg gatctgaagg agaacaagat gaccatcata ggcgagatgg atgcagtagc 240
gattgccaag aagttaaaga agattggaaa gattgacatt gtgtctgttg gacctgcaaa 300
agaagaaaag aaggaagaaa agaaagagga gaaaaaggaa gaaaagaaag aagagaagaa 360
agaggagaag aaagaagaga aaa 383

<210> 54178
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A6

<400> 54178

aaaaaaaaa aaaaaaaaaa aaaaaattaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg 60

aat

63

<210> 54179
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C1

<400> 54179

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tattcttagg aatatggagt gattgtcact gcgaaactta ccatggaata gcgcaccctg 120
cattcaaaaa tctctatgg cccgatgggtg atctgtaggc actcaatggc gcgagtacaa 180
ttccacacct tagcagctca cagctatggt tcttgtaata gggtagctta acatactttt 240
ctgcgtccct tccatcggtt tactcttacc cagcgacgac actcctaaag ggatcagact 300
tactacatct cgattgcctg aacgctcaga cgcccgtcac aagtcca 347

<210> 54180
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C3

<400> 54180

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cacgcgaaaa tctcccgatc ccagctagtc ttgcgcgaga agatgttcgc tcaccgtaag 120
ggcgtgaagg gcctgggcaa gggcggaccg aaccgccacc ggaaggcgct ccgctacaac 180
atcgagcggg tcacgaagcc ggcgatccag ctgctggcgc gcaggggctg cgtcaaccgc 240
atctccgggc tcatctacga cgagaccgc ggcgtactca agatcttcct ggagaacgtg 300
atccgcgacg ccggcaccta caccgagcac gcgcgccgca agaccgtcac agacatggac 360
gtcgactacg cgctcaagcg tccaggccgc accctcta 398

<210> 54181
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D6

<400> 54181

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tttt 64

<210> 54182

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-E1

<400> 54182

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gctattttatc atcggtctctt gtgaagggtgc gtggcctatg ttgggtgtat aaagagtcta 120

acttaatata tccgttcttt gcagtcgcac acttcatgtg acgactggta tattatgcta 180

atatatacgt ctctctctca cagccattt ctcccttttg acatattgaa gtaaaacctg 240

ctagccactt ggaggatcca cagattatat gatgcgctat aaaagtactc tccgtgttga 300

aatgttttagt ctccatcttc ggtgcataac acggttttgc tggacagtac tgtgcggaag 360

agtacaatag acataagcga tggatttcca agcagatggc ttttgggtat ttcatagtct 420

gacaaatttc attttctgt taataaa 447

<210> 54183

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F10

<400> 54183

aattgccggg tcgacgcacg cgtccgagaa agactcccta aggtcgacct agaccactga 60

ggacctgcgc tctagacgtg gaggaccgca tgagggacca ttgcgtgacg gaggagatgg 120

cgccccgcga acgcgagtac tcaaggagcc acgttcggtc ccctgtattg tcaagctagg 180

tggatcggcg actaccaaca agggcgagct ggagagcatc aacgatgaga acctacggtc 240

ggcatgtgcg cagctgctgc atgccatgta cgaatctgac tgcgatgg 288

<210> 54184
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F6

<400> 54184

cttcacttgg ataacctttc gctgagctca tttcaataag acgttttcgga gccatggaaa 60
tgctatgtcg cttggagtc aatgtggatgc ctaatttcaa attttttattc ttcatacatt 120
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcag 180
ccaatctata tgatccaagc tttcgtactc attcatgcga catcatagct gtactatggt 240
gtcacctaaa ctaaataagag 260

<210> 54185
<211> 197
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-G10

<400> 54185

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acactggcga ggatgcactc gcacgcgatg cggcagaggc tccggcagga gagactgtga 120
tgcccgcccg gccatcggcg acaggtgtac gcacgcacgg cggctgacta tgctgntccg 180
gaccggtaga gggagcg 197

<210> 54186
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G8

<400> 54186

aaaaaaaaa aaaaaaaaaa aaaaaatata aaaaaaaaaa aaaaaaaaaa aaaaaagga 60
aaaaaaaaa a 71

<210> 54187
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H8

<400> 54187

tacgagtttc agaaatataa tcaagaatct ggtggtgagg tgcattattac ttagcctagg 60
atacaggtga tagttcgtca aagtttgaag gccatgatta attggccccg catgaggatc 120
atcaatgaga ccctaactct gatactattc ggatcaatag ctacaagata cgtgtaatta 180
aagtcattga tcatgga 197

<210> 54188
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A1

<400> 54188

gctgccatgg cactcacatg tctccggagg agttatgcgg catgcagtgc agatgctccg 60
gccaagata atagtgcac cctgccagca ttccctgctg gtaaccaagc cacgtctgca 120
gaaaattagg ttagcgggtc agagaatgct tgactaataa tccttgcccc tctagaggct 180
atatcagcca tgcactgtaa tactcagggg gaatgtatgg tgaactttat atcatgcaag 240
tttagacatt tgtattttga gctttgtttg aggataaaat ctgtgtattt ttagcgttat 300
gtaacacatg gactgccaat tgctgtgggt ggattttgat ctataaaaaa aataaaattt 360
agataaaaaa tataaaa 377

<210> 54189
<211> 523
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A3

<400> 54189

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cagtttttca tgaatgacat gtgtccccgt gggggccttt tgagagtccg tgagtttact 120
 ttagcggaaa ttgatcactt tgtggacca gaggacaaat cccatccaaa gtttggtgat 180
 gtttctgata tacagttcta gatgtttccg agagaggatc aaatggcagg aatgtcagcc 240
 acaagactta aactcggaaa ttctatatct gagggaaactg tgaacaatga gacccttggc 300
 tacttcattg gaaggggtcta ccttttcttg acacaacttg agattgacaa ggatcgtctc 360
 cgtctccgtc aacacctgcc aaatgaaatg gctcattatg ctgctgattg ttgggatgca 420
 gagattgaat gtcctatgg ttggattgag tgtgttgaa ttgctgataa gtctgtctat 480
 gacttacgtg cccactcga ttaaataccg gaagaaactt gaa 523

<210> 54190
 <211> 609
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-A8
 <400> 54190

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 aaggacgagg aaggggtacc agcgttcgct ctggtgaaca aggtcaccgg cgaagccatc 120
 aagcactcgc tgggacagag ccacccggta cgccttgtgc cctacaaccc cgagtacgtt 180
 gacgagtcgg tgctgtggac ggagagccgc gacgtcgggc acggcttccg ctgctgtcgc 240
 atggtgaaca acatctacct caacatggac gccttcacg gcgacaagga ccacggcggc 300
 gtccacgacg gcaccaccgt cgtcctctgg gagtgggcca agggcgacaa ccacgctgg 360
 aagatcctgc cctggtgaac gtgaacagag acgagctaga tgaatccaag gaaccttacc 420
 tagctgctgc cgcgcgcgc taattcgtcc tctcgcgtc tagctgttat ctgtctgtgt 480
 cttcgcgtcc tcgggttcctg aatggacgaa taatatatag catgcatgta cggctagcga 540
 ccatgtctga atgacatctt cgttgctgct gctgctgcta ctgctacctg tccgtttggt 600
 gttctaaaa 609

<210> 54191
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-A9

<400> 54191

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 aggaaaacca cccagaaggg aagaaaacca tcgatcgatc catcgaaata aaaggctttt 120
 cttaacatgg agcâacagaa ctgggccttc acctttcgta tcctaggtaa cataatctcg 180
 ctgatggtgt tcctttcgcc gctgccgacg ttctaccgcg tgtaccgcaa gaagtcgacg 240
 gaggggttcc agtcgacccc gtacgtggtg acgctgttca gctgcatgct gtggatcttc 300
 tacgcgctgc tcaagtccgg cgccgagctg ctggtgacca tcaacggncg tcggtgcgtg 360
 atcgaagcgg cgtaccttgc cgcgtacctg gtgtacgcg 399

<210> 54192
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B11

<400> 54192

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 cccggccggt ctacgaggcg cgccgaggga acgggagagc aaggcgagga gcgcggaagg 120
 gctgatggaa ggggcggcgg ggcattggctc gccggccggc gtcgtgggag cagggcggcg 180
 acgagtacga ctatctcttc aaggtcgtgc tcacggcgga ctctggcgtg gggaagtcca 240
 acctgctctc ccgcttcacc aagaacaccc tttagc 275

<210> 54193
 <211> 202
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B12

<400> 54193

cggtccggat tcccggtcga cctacgcgtc cggcgagaga gatccggagc agccgcagtc 60
 ccaccgaccc cgccgccggt cgccctccat ctgctcgccg ctgcctctcg tttctctttt 120

caataatcaa gatgagccgt gggggagtgc ccgtggtggg caaaggtctc tggggtatcc 180
ctttggaagc cgtgaacccc cc 202

<210> 54194
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D7

<400> 54194

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caaagacata cacgaaaatc agaagacaat atactagaac agaaatgtac aagctgaaaa 120
aaggggcggc cgtttttagag gatccaagtt taggtacacg tgcttgcaac ttcttagctt 180
ttttataggg taacctaaat tcaattaag 209

<210> 54195
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E6

<400> 54195

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaccacgc 120
tttcgccac gcttcgcgg acccctgggt ttaaatcgca agcggccgtt ttaaaggatc 180
caagtttacg tacccttgca tgcaacttca tagcttttat atagggtaac ctaaattcaa 240
ttcat 245

<210> 54196
<211> 598
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E7

<400> 54196

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tttctgcgaa atctaagctg ctgaggacga ccacttgcta gcccagcact gagctactgt 120
 aaatggcaac caacaacaag agacgtgggt cgtagccgtt agaagagggg gaaacttctg 180
 ttaaattccag cgtatagctc gtggagctgg gattcacgag gatttctgca tctcgctttc 240
 tcaggatgat catgtaccat agctgtcttc gttagatcag acgaggcagc tcaaagcacc 300
 aggtgtttgt atatatatat tttttgtaac gctattgtag atagcctgtg tagctccagc 360
 cgtgcagctg tatgtagcag aaacctgaat gtccgaaaac gcccctgaat gtcaggtaga 420
 atcgttgctt gcatccagtt aacaagctgg cctatgtggg catgccacca tacagtagta 480
 cacatgcacc acaggatcag caagaggata gagccgtagt agaattcatg aagcagatat 540
 gttgaacttt tacagggtgc atctgaattt gatgaggttt taagttatta tattaataa 598

<210> 54197
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-E9
 <400> 54197

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 tgagagacct caatgttacc accgtatctt tgtctttgtt ggatggagag atttaagcac 120
 cttaccacac ctttgttctt tgttggatgg agagttttaa gcatcacctg tttgaagttg 180
 aaaaccctaa ctcanaan 198

<210> 54198
 <211> 172
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-F8
 <400> 54198

aaaaaaaaa aaaaaataaa aaaaaaata aaaaaccaa aaaaaaaaaa aaaaaagggg 60
 gaacaagaac gcggacggcc gcacaagagg acccaagcaa acgaacgcga gcaggcaacg 120
 acataagcac accaaaaggg acacctaca ccaagccaca ggccgacgag aa 172

<210> 54199
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H1

 <400> 54199

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 cgtttttagct tgcaaagctc tcggcagctg ttgccatttc aagcgccggt gcgccctcaa 120
 ttacccatgc ctgtcgccca gcccccaact tctacgtcat cgtagtgggc gccggcatca 180
 tcgtcagctt cactgctca 199

<210> 54200
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H10

 <400> 54200

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 tccaggtttg tgctgcgaga gggcctatcc attcggcatg attgatttcg tgctcctgat 120
 cagccgacag ggcaaggtga ggctcaccaa gtggtattct ccttacaccc agaaagagag 180
 gaccaaggtc attcgcgaac tcagtggact cattcttaca cgagggccca aactct 236

<210> 54201
 <211> 102
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H2

 <400> 54201

 aaaaaâaaaa aaaaaâaaaa aaaaaâaatt aaaaaâaatt aaaaaâaaaa aaaaaâaggg 60
 aaaaaâagaa aaaaaâaaaa aaaaaâaaaa aaaaaâaaaa aa 102

<210> 54202
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H5

<400> 54202

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggagc cctttttaga 120
ggccccaatt ttacgtccgc gttcttgcaa cggtatacct tttttatagt gcccctaatt 180
ttaaatt 187

<210> 54203

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H9

<400> 54203

ggtcgaccca cgcgtgcgac cacacgtgcg aaaaaaaaaa aaataaatta ttataatgat 60
ttaaaaatat aaataaataa taaagaaag 89

<210> 54204

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A11

<400> 54204

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ccgtcgtgct cgtcgcggag ccgcaccgng tcagggtgct cggcaacgtc tggctcgcct 120
tctccatggc cgtcttcgtc gccccctga gcgtcatctt cgttgtgatc aggacgaaga 180
gtgccgagtt catgcccttc accctctcct tcttccttac cctcagcgcc gtcgcctggt 240
tcttgtagcg gctcttcacc aaggaccct acgtcacgct cccgaacgtg ggcggcttct 300
tcttcgggtg catccagatg gtgctctact gctgctaccg gaag 344

<210> 54205

<211> 271

<212> DNA

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<213>      Zea mays
<223>      Clone ID: LIB3079-042-Q1-K2-G11
<400>      54205

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ttgagagtga tcaaatecctt agctgcttgc ttttgtctct ctattttctc ctttgtgtatt    120
tttaagcggt tatccatgaa caaagtatcg gtactaggggt actactaaac caaggatttt    180
aggctgtttg gctcaggttt aaaaaaaagc tggaagccat acaacgcccg atgctagcca    240
ccgagctgaa cctcggctac caactggcgc c                                271
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<210>	54206	
<211>	400	
<212>	DNA	
<213>	Zea mays	
<223>	Clone ID: LIB3079-043-Q1-K1-A3	
<400>	54206	
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ctccgaatga	agcaggatat	gcaaaatgag
60		
aacaaaaata	tgtctgactt	aatagcatat
agggggagaat	tcacccctca	tccacatgct
120		
ggtgataatt	ggtgtatcta	tccgagctat
gactatgctc	attgcatggg	ggattctctt
180		
gaaaacatca	cgcattcgct	gtgcacactt
gagtttgaca	tacgccgccc	ttcatactac
240		
tggctacttg	ttgccttg	tctttatcaa
ccatatgtgt	gggaatattc	gaggctaaac
300		
atatcaaata	ctgtgatgtc	taaaagaaag
ttgaatcgac	ttgtgacaaa	gaactgggta
360		
gatgggtggg	atgatccccg	cttgttgaca
ctggctggac		
400		

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<212>      DNA
<213>      Zea mays

<223>      unsure at all n locations
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<400>      54207

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ggaagcaaca gacagtgatc ataaacctgt caaatgtgtg ttcagtgtag atattgctca      120
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tgtggacaaa caaacaatga ggcagaagta tggagaaata atggggttcaa ataaggaagt 180
gcttgactca cttcagggct tggaggcttt gcctgaagta gatatcagca cgaatgacat 240
cattctgcaa gatcaaaacc cttttgttgt gaaactgcac aacagaagta caaaagagtt 300
ggcttgTTTT gagatcattg gtcagacacc aaagtcattt ggcacacctt tctcaggttt 360
cccttcttgg ctgaaggttt ctccggcagt cggataaatt tctcccagac aatctgttga 420
agtgcgttg caacatggac aaatacgaag tcaagattat cttactggga cttcanggga 480
cagttctgga gc 492

<210> 54208
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-A7
<400> 54208

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ggcaccagc ctccacgcca cagatctctc tccctggccg ccctctctct ctctccgaac 120
tctacccgc agtctcggcc gcgccatgg cggaggacgc cccaacgcc gtcgccgagg 180
gcagccagcc cgcggcctcc gagggatccg ccgacgccgc cctgccggct gccgcgggag 240
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gcgacgccgt ggtgcgccgc ctctgcaga cgtcgcggc gccagcgtt ctctccagc 360
gctacggctg cgtcccgag ccgaggccg agcgcgccgt cgtggccgtc ga 412

<210> 54209
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-A9
<400> 54209

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gcacgcacac gcacgcac acaccagcc ttttggtgc ggtggcgccg tcagagagag 120
aaaccgagct ctaactaact gaagtggcgg ccacatagct agctactctt ctgacctga 180

gcgcgcacgc gccatggctc aggaggacgt gcacctggac gacgcaggcc tcgcgctggg 240
 cctgtccctc ggcagcggca gcggcgggcg ctctggtgcg gcgcgccacg gtggtatcag 300
 ccgccggctg agcatggagg tgcggctgcc gtcgccgcac ccgctggagc cgtcgctgac 360
 gctgagc 367

<210> 54210
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-B2
 <400> 54210

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 cctgatcaac aacctgatcg gggctctaaa ctctgctacc ttctgctct cgtccccgat 180
 cctgtgcgcg ggcattctggc tggggccaccg cgcctacggc acctagtgt agcgctacct 240
 ctcggcgccc gtcattctgc tgggtggcctt cctcctcgcc gtcttctctg cggtcctcgt 300
 cggcgccctgc tgccgcgtca cctggctgct ctgggcctac ctctcgcga tgttcgtcct 360
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<210> 54211
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-B8
 <400> 54211

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 accctcagca gtctggacgt cgactgctgc ttgatccag anagaaattt ctacctggaa 120
 ggcaaggggtg gcctgttcga gttcctgtac gaacggatca agaataaggg gcatgctgtc 180
 ttcatggtct ccaaacgaac tggccatgaa ctgattcccc ctactgacca tcagaagcgt 240
 gagcaggact agtcctgcaa caccgtcttc ctctacctat gacccttgct gaagtcctag 300

ctgatcatat ggtggaagag gtaacatccc gactacgcta tcactgtgaa gttcattgac 360
 cctacgtaca tgatcctatc ctccctgcg aacgccagcg acaacttgta ctgcactttt 420
 c 421

<210> 54212
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C2
 <400> 54212

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 tgctaccgca accattttcc cacaatgctc acaagctcct atagcttcct ttcttcccc 180
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 ccaacaggca atcgcagcag gcattctacc tttatcaccc ttgttcctcc aacaaccgtc 300
 agccctatta cagcagttac ctttggtgca tttgttgga caaaacatca aggacaaca 360
 actacaacaa cttgtgctag gaaaccttgc tgctactct cagcaacagc agtttcttcc 420
 attcaaccaa ctggctgcat tgaactc 447

<210> 54213
 <211> 530
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-D1
 <400> 54213

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 gaatccggag gaggaggggtg cgaggagatc gcgagcagcc ggagccggag ccggagccgg 120
 aggcctagta tatgaagacg ttcgatccgt ggccgggtctt cttccgccgg gagtggaagc 180
 gcaattggcc ctctctcacg gggttcgcca tcaccggctt catcatcact aagatgacgg 240
 ccaacttcac cgaggaggac ctcaagaact ccaagtctgt ccaggagcac aagaagcgct 300
 gaccaaccag taatctatga catggacgcc ggatggcact ggcagaggga tgggtgtacgg 360

tgttgtccga attgcctgtc tggacagcca gttatgttat gctgtttgaa tgaaaaatta 420
gcttcttttt cttcatctaa atgcgtgcag cctatgctcc atctgtaatg taataagagg 480
caactgactn gatccaaaag ctaccaacct ctgattatga atgatacntc 530

<210> 54214
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-D2
<400> 54214

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ggcgacgcca aagttcttgg gcctcctcat cggcgacttt tccgccggcg acaggaaaca 120
acgaacaaaa ccacttctct gtcgagaggc gtcgcgctcc tctcttcgcc ctctgctggt 180
atTTTTctta acccggtttt ctctcgattg ctgcgtaaag ttgaagatga ggaagctcaa 240
gttccatgag cagaagctcc tcaagaggca caatttcttg gagtacaaga gggagggcgg 300
ccaccgcgag gcgctcgtca cacagcgcta ccgcctcgtg gagagggacg actacaagaa 360
gtacaatggg atatgcttaa tgggtgcaaaa gctcgttaac atcataaagc 410

<210> 54215
<211> 163
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-D5
<400> 54215

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agctactaca cctctcctat cctatgttct cagttaactt tctgtcagac agtagttttg 120
ttttccttcg tgtaatcccc tagatatata tatttccatt tct 163

<210> 54216
<211> 229
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-E1

<400> 54216

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tgtgcgttta ctctttattg gttgattgag gagtgggggc atgctaatacg actaacaaat 120

ccttgacttc gtcgattcat taacctatga atgtatctgg gaactgatga ctgaaaaata 180

ttgcatgaaa atacatgggtg gtcaaacaga atttgaacca tgtttccat 229

<210> 54217

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-E10

<400> 54217

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ttattatatac agtttaacaa aaaaaccctt tctcctttct ttatttttta aacacctcca 120

caatttaaaa aaccttttcc aaataaccgg cccccaatcc actttggtaa aacaaaaaaaa 180

taaatctttt ttt 193

<210> 54218

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E2

<400> 54218

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tttttaaaaa aaaaaaaaaa 60

aaaaaaaaaa aagggggggtt ttttaa 86

<210> 54219

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E3

<400> 54219

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 ttacactcca cgattacacg ctgttttctg gtgatgagtg ggaggtgggg gctagcctcc 120
 aggtaaagat actttctgaa cagaatatgg ttgctgaagc tattgatagc tgtacagtta 180
 tggccgcttg ggatggtgtg ccatctggag ttttgtgcta acatgcatgt gatttgacgc 240
 tgcaatgtgt actagcaaca gacttggttt tcttggtt 278

<210> 54220
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E4

<400> 54220

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 tagggagaaa cgtcaagacg ttgagaactc aaaaggtacc tcgaagaaaa aggcgcgaac 180
 agaaccgcca aaggagatac ttcaacgtac tccattaaat cggaaggggt cagctcttgc 240
 cgaaagtcca gataagacgg tggacaaatg tgagatccat gatgagataa aaacaaatgt 300
 ggaacttgat ttgtcagaat cgtgcagaac tgataatggc attgttgcca tacctgttcg 360
 tgcctattca tacggtaaag gtttgccta tgctcctgaa aattggccac gtcattggaga 420
 catatggcac tggaaaagtg gaagc 445

<210> 54221
 <211> 328
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-F10

<400> 54221

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 ggttgctcta gtatgatgtg gagcgtctag ttaaaaaaaaa tcagtntagt atgaagcacc 120
 gtgctgctct gaatattaac aggcaattaa ggcaaggtgc tgtttcggtt tgggtggaccg 180
 catgttgacg ataataaatt agttgttttg tcatttgcgt ctctatcgac tttgctagtt 240

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-F4
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 tgagctgtac ctgttgggtct tctctctcgc tcttcttgggt tcgcgctggt tgccgggagc 120
 tgggatcgaa agtactgctg ttgttcgcac ggcgaggcgg cggcggagac cggtcagaag 180
 gaatgtcttc ggcccaaate gcgcgggcag atcatgtgtg ctatgtgcac tgcagcttct 240
 gcaacacagt tctcgcggtg agtgtcccgg ggaatagcat gctcaacatc gtgacagttc 300
 ggtgtggaca ctgcgcaaatt ctactgtcag tgaacctgag agcactgatg cactcactcc 360
 cagaacaaga tcatcagctc caggagaaca tcaagggtcca tggcatcaac ggcactttgc 420
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<210> 54225
 <211> 485
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 54225
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 ctgcacagca acgcatcatt cttctggaac catctcgccg gcgcgcacca caatccacaa 120
 cccgtcgaag cgaagcaagc aatggccgga gtcggatcga aggccctcgc cgttgccgcc 180
 gttctggcgg ccgtctcctt ctccgtggcc gccgcggccg aggcgcccgc gccagcccc 240
 gtctccgccg ccgtcggggc gtcgtcgccc ttccgcggcg ctctcgtcgc ctccgccgcc 300
 gccttctctt tcgccgccgt ccgccactga gccgatgggg cctcgtgcct gcaggctacc 360
 tagcagtacn ttccccgccg ncgccgncgn cgnctagatc tatntattgg agtgctatcc 420
 agtagtacta gtagtagtga gattttgtcg gtgctgtcgt gtcctcgtcg catttttggtc 480
 ggatc 485

<210> 54226

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-H2

 <400> 54226

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 cggcggcggc ggcgtgacag gcaggcgga cgagccgtcg tccgtcgcc gcggcgacgg 120
 gcggcggtgc ctgggcctgc cgctcatccg catgctcccc gtcgtcaagt tcaactgccgc 180
 ctctgcgac gccggcgccg gcgctgggtg cgtggcgccg aggatatccg tgtcggagt 240
 cgccgtgtgc ctgatcgagt tcgtggagcg cgagcgcgtc cggctgttgc ccaactgctc 300
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<210> 54227
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-A12

 <400> 54227

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 ctccatacgg cgacacagag cgctccctgc agatgacctc ngctgtggtg gagcgcgtaa 120
 ccaacgacga ccggagcgta gcctcggtgc ttgatccaac gctgggtgga gaccacaggg 180
 aagacgagct agcggtcatc ggcgaggtga tccgggcctg catgcanagc gacccgaggg 240
 gaaggccgag catgagggag gtcgcccga ggctgaggga ggccgtgggt atctcgccgg 300
 tcgctgcgac gccgaggctg tctccgctct ggtgggcccga gctggaggtc ctttccgccc 360
 cggaagcaag ctaataatag tgggcgagag gacaggacag gaacagggca ngatgatgtc 420
 gcgcaatctg accagtttgt tctcaag 447

<210> 54228
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-A4

54226-54228

<400> 54228

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gacaaacaaa caatgaggca gaagtatgga gaaataatgg gttcaaataa ggaagtgcctt 180

gactcacttc agggccttgga ggctttgcct gaagtagata tcagcacgaa tgacatcatt 240

ctgcaagatc aaaacccttt tgttgtgaaa ctgcacaaca gaagtacaaa agagttggct 300

tgttttgaga tcattgggtca gacaccaaag tcattctggca cacctttctc aggtttccct 360

tcttggtga aggtttctcc ggcagtcggt ataatttctc ccagacaatc tgttgaagtg 420

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<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A9

<400> 54229

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gagctctaac taactgaagt ggcggccaca tagctagcta ctcttctgat cctgagcgcg 180

cacgcgccat ggctcaggag gacgtgcacc tggacgacgc aggcctcgcg ctgggcctgt 240

ccctcggcag cggcagcggc ggcgcctctg gtgcggcgcg ccacggtggt atcagccgcc 300

ggctgagcag ggaggtgcgg ctgccgtcgc cgcaccgct ggagccgtcg ctgacgctga 360

gcttgccgga cgaagcgacc ggcaccgggt ccggcggggg cggggccgcg cacagcgtgt 420

cgtctctgtc agtggccggc gtgaagaggg agcgcgtgga 460

<210> 54230

<211> 516

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B1

<400> 54230

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cagcggcaca cgtgatcacg gcggtgatcg ggtccggcgt gctgtcgctg gcgtggagca 180

tcgtagcagc ggggtgggtg gccggggccg cgcctatgct cgtcttcgag gccgtgacgg 240

cgctccagtc cacgctcttc gccgactgct accggtagcc ggaccccgag cacgggcctc 300

accgcaaccg cacctacgcc aaagccgtgg accgcaacct aggtagcaac agctcgtggg 360

tgtgcatgct tctgcagcac acggccctgt tcggctatgg catcgccctac accatcacgg 420

cctncatcag ctgcagggcg atccttgagg cgaactgcta ccacgagcat gggcatgacg 480

cgactgcga ctacgatggc aactactaca tgctca 516

<210> 54231

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B12

<400> 54231

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ccgcactcac accatttcac catctctccn gcggggcaga tcctctacgg tcgccagcct 120

ccccctctg ctgctgcctc ctgcttcaa gcaacaccg aagcggcaac aaccaccacc 180

accaccacca ccggacctgc ctgagcgacc ccttggtctc ccactccact gaagcagggc 240

gagagagagt aaggaggagg aggagaagcc atggcgagcg acggcgactg taagggccgc 300

gtcgtacagg cgccgggggc aaggtagggg tacgtagcgt acggcggtta c 351

<210> 54232

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B2

<400> 54232

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 tccggctgat caacaacctg atcgngtcc taaacttcgt caccttcctg ctctccgtcc 180
 cgatcctggg cgcgggcac cggctggggc accgcgccta ctgcacctag tgcgagcgt 240
 acctctcggc gcccgtcac tcgctggggg cttctctct cgcctcttc ctggcggggc 300
 tcgtcggcgc ctgctgcctc gtcacctggc tgctctgggc ctacctctc gccatgttcg 360
 tcctcatcct cgtctcttc tgcttcaccg tcttcgcctt cgtcggcacc 410

<210> 54233
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B4
 <400> 54233

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 atcccttcgc atccgctgca gcagcagctg acgatgatga cttatacagt taaattagca 180
 gtctgtgtt gtgacgcata ttgagtactt tgcttcgtta tatgcttatt atagtagact 240
 acaagcaaga cgcggagtcg ctgtacctat ataatactta agttaatatt ttggtacgat 300
 cctctgaatc gtgccatgag ccattggttg tgcttc 335

<210> 54234
 <211> 522
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B5
 <400> 54234

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 gcgaagggaa atggcgaccg ttccagggga tctgatctgg cggatgtgat gaagagcgac 120
 tccttctcgg tgaagcagtt tggcaacggc aatgccaaagg tgcagttcac caaggagccc 180

aacaacctct acaatgtaca ctctacaag tactctggct tatcaaaca gaaaactgta 240
 acgatccagc cagctgctgg aaaggactcg gctgtgggcc tctctactac caagaccaag 300
 aagcagaaca cccccgcgaa gctcagccac aagtctgtaa tgcgcaagga gttccgcaag 360
 atggccaagg ctgtgaaaaa ccagggtggc gacaactatt acaggcctga tctgaccaag 420
 tcggcccttg gtaggctgag ctctgtgtac cgcagcctcc aggttgccaa gtctggtgtc 480
 aagaagaaga acaggcagcc tacgcactaa gcctgtgttc tg 522

<210> 54235
 <211> 508
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B6
 <400> 54235

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 cttcaatatg tgaaaaccca gctcttcaac catatangct tcagcaagca atcgcagcaa 120
 gcaacatacc tttatcgccc ttgttggttc aacaatcgcc agccctatct ttggtgcagt 180
 cattggtaca aaccatcagg ggcgaacagc tgcagcaact cttgctacct ctgatcaacc 240
 aagtagctct ggcaaaccct tctccctact ctcagcaaca acaatttctt ccattcaacc 300
 aactgtctac actgaaccct gctgcttatt tgcagcaaca actattacca tttagccagc 360
 tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 420
 accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa 480
 accgtgcttc cttcttgaca cagcaaca 508

<210> 54236
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B8
 <400> 54236

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agcagtcggg acgtcgactg ctgcttgatc ccagangggg atttctacct ggaaggggaag 120
 ggtggcctgt tcgagttcct gtacgaacgg atcaagaaga aggggcatgc tgtcgtcgtg 180
 gtcgccgaag gagctggcca ggaactgatt ccccttactg acgatcagaa gcgggagcag 240
 gacgagtccg gcaacaccgt cttcctcgac gtaggaccct ggctgaagtc cgagctgggc 300
 agatggtgga agaggggaaca tcccgcagag cttttcactt gtaagtacat tgaccctacg 360
 tacatgatcc gagcgggtccc tgccaacgcc agcgacaact tgtactgtac tttgctggct 420
 catt 424

<210> 54237
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C2
 <400> 54237

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 ccaacaatgt gcagccaaaa tattttgctt ccttatgctc gctgggtctt tctgcaagtg 120
 ctgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc tttcttcccc 180
 catacctctc accagcgggtg tcttcagtat gtgaaaaccc aattcttcaa ccctacagga 240
 tccaacaggc aatcgagca ggcattcttac ctttatcacc cttgttcctc caacaaccgt 300
 cagccctatt acagcagtta cctttgggtg atttgttggc acaaaacatc aaggcacaac 360
 aactacaaca acttgtgcta ggaaaccttg ctgcctactc tcagcaacag cagtttcttc 420
 cattcaacca actggctgca ttgaactctg ctgcttattt gcaacaacaa ctaccattc 479

<210> 54238
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-C3
 <400> 54238

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 taactccctg cttctctctc tatctccctc tctctagcac ccggtgcagc atcaaccccc 120

ctccaatgga gctggcgacc gagccctccc aagctcctct ctcaccttgg caagctctcc 180
catggcgtct cccctcctc tacggcagta aggaccgaga gatgatgatc gagccagtga 240
tgtggtggta acaacaaggt gcagttgggtg gacgtactga aggatgatgg acttaaccag 300
tggatgctcg ccgagcaagt acctccccca acaaacta tctaagtgtt aaattaaagg 360
tactcttttag gatgtttggt tgatgggtgtg acttggcctc catccctgcc accgggatag 420
acggtcgagt gggttactgc 440

<210> 54239
<211> 488
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-D2
<400> 54239

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caggaaacaa cgaaccaaac cacttctctg tcgagaggcg tcgcgctcct ctcttcgccc 180
tctgctgtta tttttcttaa cccggctntc tctcgattgc tgcgtaaagt tgaagatgag 240
gaagctcaag ttccatgagc agaagctcct caagaggcac aatttcttgg agtacaagag 300
ggagggcggc caccgcgagg cgctcgtcac acagcgctac cgcctcgtgg agagggacga 360
ctacaagaag tacaatggga tatgcttaat ggtgcaaaag ctcgttaaca tcataaagca 420
gatggaccca agagaccctn tcagaatcca gatgacagac ttgattctcg ataagctgta 480
taatatgg 488

<210> 54240
<211> 166
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K2-D5
<400> 54240

tagctactac acctttccta tcctatgttc tcagttaact ttctggcaga cagtatttaa 60

gttttccttc gtgtaatcgc ctagatatat atatttccat ttctaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataa 166

<210> 54241
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D9

<400> 54241

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 aaaggatgga atacactcag ggaagaaggg cgttccattc aacacgagtt gcgtgagatt 180
 agtgatattg aaaaccaagc agtaggtctg aagggaattc ttgatcagct tcccagagca 240
 catgcatctg aatttcgggc gaagatgtct ggcctagctt ctcagggtta gaaggagaag 300
 cgagtgtca acgccgccct cacgaagatt gtgaactacg gtgtcccat ctgactgcca 360
 ctccagccag ttgttctgaa ggtccattgt attgtatcag atttttgtga aggaagacat 420
 gttcgatgtg taggggtgaac gctatacttg ccactttg 458

<210> 54242
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E10

<400> 54242

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 ttatttttaa atataaaaaa aaaaaacttt tccaattata ttatttaata aaaaataaaa 120
 aaatgtaaaa aatctttttt atatgttcgc cccactcaaa tttataggaa aaaaaaaaaa 180
 ttctactttt ttttaataaa actttta 207

<210> 54243
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E2

<400> 54243

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aaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaggt ttgtttt 117

<210> 54244

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E5

<400> 54244

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ctcaactcag ctgggagatc tagagaatgt aactgattct gcagtgcgaa gggacattca 120

aagtagtgca gttcgcacgg gttctctatt tcagaacctt ggttctttgc ttctggaact 180

tggg'gcacc acaatgctcc tgcgtataaa tccgtcatct tcagaagcgg ttgtaaactc 240

tggaccagct ctttatatat ctccatcagg gccaaatcct cttatggttc aacctgttcc 300

atttccagga aggtctgtcc aaatgggtac tttgttttct agtctgggtt cacaaggatc 360

tgttctacat ccgagagatg ttgatatacca tgtccgcaca agtgggtccg tgcctggagc 420

cagtactaac ccaagtgatt cagctgggtgc gcaagcgcac caaatgtga ataggccagg 480

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<210> 54245

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E9

<400> 54245

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aaaaaaaaagg gcgggccttt ttaaaaaaat ccaggcttac ttacccttcc atgcaacctc 120

ataacttttc tataccttca cctaaattca att 153

<210> 54246

<211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-F1

 <400> 54246

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 aaaacttttt ttggacaaaa aaaaaaaaaac ctgttttcag gagggggatg gcaaaattca 120
 ctccacagaa taatgcgcaa attccatgga ttctgatact agaacatggc cgtggtgtgt 180
 ttcacaggac ggcgctgcca tctgatttga gggcgaagtg gagggagcatg canaggaaaa 240
 agtgggcaag ctactgatct tacacgcnc cgcgcacgta gctgttgtgt ctcatgctaa 300
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 aacactgacg tgggtacttgt acatagcgaa tgtgcaagta ngaaatgagg agggtttctt 420
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<210> 54247
 <211> 482
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-F6

 <400> 54247

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 tcgaagcgaa gcaagcaatg gccggagtcg gatcgaaggc cctcgccgtt gccgccgttc 180
 tggcgccgt ctcttctcgc gtggccgcgc cggccgaggc gcccgcgcc agccccgtct 240
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 tcctcttcgc cgcgctccgc cactgagccg atggggcctc gtgcctgcag gctacctagc 360
 agtacttncc ccgccgcgc cgcgccgcgc tagatctatt tattggagtgc ctatccagta 420
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 ct 482

<210> 54248
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G5

<400> 54248

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 aagtgatcaa aatttggtta catatgatga tgaagatgga atgcctcgta ttatgcatta 180
 ttcaaaaaag tctttccttg aaaccattca agctcagaat aagctatctc acatcaagag 240
 caaatagtga atttgggcct ttgaattggg tttcttctgg cttcataaag acttgtggtg 300
 atttcaggat tggtaaatat gaaagctgtg atatagtcaa catgttctct 350

<210> 54249
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-H2

<400> 54249

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 gccgtcntcc gtntccgcg gcgaccggcg gcggggcctg ggcctgccgc tcatccgcac 180
 gctccccgtc gtcaagttca ctgccgcctc ctgcgacgcc ggcgccggcg ctggtggcgt 240
 ggcgccgagg atatccgtgt cggagtgcgc cgtgtgcctg agcgagtctg tggagcgcca 300
 gcgcgtccgg ctgttgccca actgctccca cgccttcac atcgactgca tcgacacgtg 360
 gctgcagggc 370

<210> 54250
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-H4

<400> 54250

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accttcgtcc ccgtcccga tccggggcgc ccctgatgcy gtgcccgcgc ggcgcgatcg 180
cgtgacggac ggccgccatg gatccccag gccgcggcga ccaaggcgag gcgccgcagc 240
cgcagccgct ggagtggcgg ttcgctcagg tcttcggcga acgtgccgcg ggcgaagacg 300
tccaggaagt tgacatcata tctgcaattg aatttgacaa atctggtgac catcttgcca 360
ctggggataa aagaggacgt gtgggtttat ttgaaaggac agatgttcgg gatcagaatg 420
ccagccagag agaactggag agacaagat 449

<210> 54251

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A12

<400> 54251

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tatgtttgcc ataggctctc atgggtggtt ttactgtgag aatgacctcc aaagcctgat 120
aagtgactgc aagacatacg tgatgttccc agctaacca aagggtccctc cttcggatgc 180
ttgctgtggt gtcataaga aggcaaactg tcttgcttg tgctccaagg tcaccaaaga 240
aactgagaag gttgtgtgca tggagaagg tgtgtatggt gctgagcagt gtaagaggcc 300
atgtgagcat ggcttccagt gcggaagcta caaggttcca gcaaactgat gatatcgcaa 360
gaggggaagcg cttgacgtag tctttagatt tcaattgttg cagccgatca accttcttag 420
ggttgataa ta 432

<210> 54252

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A2

<400> 54252

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taagtgtaaa tttgggttcc cgaagggttg tttatgccca tttcgcttat gagcttctct 120
ataacataca gttaacactt aacagctgct ccgcatttgc aatctccctt gtttcataat 180
gagtcgactg atggtatcaa tctgtcaaga tatatttggg tgaa 224

<210> 54253

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A7

<400> 54253

aaaaaaaaa aaaaaaaaaa aaaaaataaa ttaaaaaaaaa aaaaaaaaaa actaatagga 60
gagcatatat aaaacaatct aaagaaacca aactaacata cccttgcattg ctactaaata 120
actcttatct agtttcacca aaattcattt cattggccgt cgtttaacaa cgtagtactc 180
tgataaaacc ctgtctttac ataccttaaa tcgccttgct acaaattccc attttgccaa 240
ctggcttaat ttcaaaaagg cattcaccca tcgaccttcc cat 283

<210> 54254

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B11

<400> 54254

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tgtgggaggc ctgtgataat gcccgttatg tctcaacatc cattttcgtg cattccatgt 120
tcttcaatac ggacttgaaa catgaattct gattttctta ttactacctt caagtttcag 180
ctaaaatact ataaaacaaa ctaacataca tataactaaa aataaactaa tcttccttcg 240
atctagacaa ccctacctta cgaccacgtc cttatgcaca acaatatatc tttttcatac 300
ccactattat atttgcattc accacttgca caaactttgt tgcttactaa tacctttttt 360
tgccctactta ctaaattttt actctaaatt gttatctttc aaattttcaa tttgtt 416

<210> 54255
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C11

<400> 54255

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 atctgcctga acatccagaa ttatgacgtt tatatcctca aggggttcaa caagggcctg 120
 gtgaacaaca aggacatcga gaacctcaag gtccagggtg agaagtttgc cgactccttc 180
 gacatgcctg gggttcacgt tgagagcatg aaatacaagg agtagatatg cctctttcat 240
 gcgcggcaag gtctctctgt accgatgtct ttccttggtg tggctcatgg tgccatggca 300
 ctgcattgcc gccacactta cgatgatgat gatgggttat tgattttgtc tacaatgtca 360
 tcat 364

<210> 54256
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C12

<400> 54256

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 ttcagcggcg gcgtccaggg tgaacccgaa tgcccatcac catggcgggg ggcaagatcc 120
 agaagaagcg ccacggcgcg gcgggaggcg cccggctgca gggcggtatc ccgttcgaga 180
 agtccaaggg gcagcacatc ctgcggaacc cggcgctggt ggactccatc gtcgccaagg 240
 ccggtctcaa gccacccgac accgtcctgg agatcgggcc gggcacagga aacctacca 300
 agcgccttct cgaggctggt gtcaaggccg tcgtcgccgt cgagctcgac ccgcgcatgg 360
 tgctcgagct caaccggcgg ttccaggggc acccgctctc ctcgcgcctc aaggttatcc 420
 aaggagatgt cctcaaagt gatctcccat ac 452

<210> 54257
 <211> 191
 <212> DNA

aaagacccca agtttgcaaa atacatcaac aaccccaaca ccgccaaaac ctttacctcg 240
 tgcggcatag ccatcccaaa atgctaagca agcgctctgc gtcgtcgctt cgcttgctct 300
 tgctcttggtg tgtaacatat ccagcttatg aataaattat gtggatcagt taattagtgg 360
 aaaaaaaaaa attaatttat ttatttttat atttt 395

<210> 54260
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E2
 <400> 54260

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 ccgatcacc accaacatac tacgaagaca tgcagcgctc ggtgttctgc ctctgcccg 120
 tgggctgggc accgtggagt ccagggctag tcgaagccgt ggtctttggc tgcaccccg 180
 tgatcatcgc agacgacatc gtcctccctc tcgcgagcgc catcccgtgg gaggagatcg 240
 gcgtcttctg tgcagaggat gatgtcccgc agctggacag catcctgaca tccatcccca 300
 cagacgtcgt gctgaggaag cagcggctcc ttgcgaacct gtcgatgaag catgccatgc 360
 tgttcccca gctgctcag ccaggagatg cgttccacca gatcctgaac ggcctatcgc 420
 gcaaagctcc gcacggcagc aatg 444

<210> 54261
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E6
 <400> 54261

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 ttatggagaa caatttgcct aatgatgtgg gggaattgct aaattattgt aatttcgcaa 120
 gagttccaac atgaccacga tcagtgtttg caaacaggaa tgtttaacca gctcaaaaag 180
 taatcgatgt gttcgaactg gtcaatccag ttactcctga agaaatgtcc catatggcaa 240
 ttgatagaga agctaacc aattccataa ctaattttga ggaaaacagt aaagactagc 300

tctgtggtca agaccaataa cgtgcttaag aaattaatat ctgcaatcaa gttggctaatt 360
 caatggcatt tca 373

<210> 54262
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E8

<400> 54262

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 gcttaccctc aaccgctgag gtggacaaat atgcgagggg agtaccgcaa ggatgctgag 120
 atctgcgtca acgtggttga ggaatccgtg cgtgcatcac ttggaaagag gaagaccgca 180
 cctaagctgc cctctggcgc agacgctaag aagcttaagt tttggttagg aaagaacaaa 240
 gtagaagaag atgaaagtga tagtgacact gatgtggatg atgaggacat tgaagatctt 300
 aagagcgcag atgcaaaatc tgtagaagtt gttgatggca ttactcaaa atggatgcag 360
 aataaatgag gagaagcttg atccttggtt ctgtttttg 399

<210> 54263
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F11

<400> 54263

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 tctgtcaccg cggcctcgcc ctgcgccgca tggttgctct tacgacggcc tgtgcgctac 120
 gccgtcctcg gcgcgggctt tgccgggtctc tccgtcgcgt ggcacctcct caagcatagc 180
 ccgagggatt cccgcgtgtc agtggacatc tacgacgaga acggggtcgg cggagggcgcg 240
 tcgggctgtc cgggtggact tctccatccc tactcgcta aagtgaaact tctctggagg 300
 ggtgctgagt tctggaaaga aagcatggat ctcttcgca gcgccgagca agcaaatgga 360
 acctcggtat caaatacaac tagtcaagat gataacctta tcttgagaag ggggattgta 420
 cgaccgtcta caactgataa agcttgaacc atattgcttg agaattgtca aaaat 475

54264 54265 54266

<210> 54264
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F5

<400> 54264

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aaaaaaaaat aataaaaaaa attaaaaaaa gatattttat aaaataaaat aaaataaaaa 120
taataatatt aaataaatac atatataaat aataatatat aattatacat atat 174

<210> 54265
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G11

<400> 54265

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tctgtccggt ctccactcgt ccgggctact agactactac tgaggggttc tgcgggggat 120
ttgtttgtcg ctgactcgcc ggcgaccaag atgaggccgg ttttcgtggg gaacctagac 180
tatgataccc gccactcgga gctcgaccac ctcttctacc gctatggcag ggtcgagcgc 240
atcgacatga agtcaggctt tgcttttgtc tactttgagg atgaacgtga tggcagtgat 300
gccatacgtg ctcttgatgg ttatccattt ggcccttgca gacgcatgct ttcagtagag 360
tggtcacggg gtgatcgaac tgctagacgt gatggcaaca aaccagaagt aaatactaag 420
ccaactaaaa cattgtttgt catataac 447

<210> 54266
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H11

<400> 54266

cactcatccg aagaaaaaaaa aaaaaaaaaa aacaagttta tttaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaca gaaatttttaa aaaaaagaaa gcaagaaaaa aaaaaaaca aaaaaaaaaa 120
 aaaggccccc cccctaag aacccaacct aacgtaccca tccatccaac atcataactc 180
 ttcaatagag ccacaaaat ccaatt 206

<210> 54267
 <211> 129
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H5

<400> 54267

gttctgccgc tctcgatcta acccacacgg gcagagctca ttatctacta ctgtgctacc 60
 accttcaata cactaaacct tacttcatgt tcctagtcct gcttaaggcc cttgcctgtt 120
 actagcacc 129

<210> 54268
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A1

<400> 54268

tcgggtccgtg attccccgggt cgaccgacgc gtccgatagg atcgactctg tctgacgctt 60
 tcctgtttgg agatacctgc tcctgccgac taccgagagt taccctactc agtctgcgtg 120
 ctggcacggc caactaggat atcaactagg atgagtcgag gaggaatggc 170

<210> 54269
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A10

<400> 54269

ggattccgc tcgactcact catccgggtt gctggtcaca aggacttcct tgtatgaaat 60
 ccttatctga agcatcatct acgtacttct ttaaaactac atcaccactc ttaacttctg 120
 ccaaccctac accctta 137

<210> 54270
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A2

<400> 54270

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 agtcttaaga catacaaggc caatctgata agctttccaa ttcattctca caacgttcac 120
 gctcatgtct ctactccaca tgaacttgta aacgataccc agatccaggg tgactacata 180
 ccttatactc gtagttagaa acctccactt aaggcactat accatgcata ccttactaat 240
 ttatcaccta cctttttcaa tcaaatacta gaattgatga tgtcacaaca acatttacac 300
 cctccatttt ttttattttt attttcacta tatttttcat tttaaccttt tattctt 357

<210> 54271
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B1

<400> 54271

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 cgtgaaggta gttattgatg cattccacct cattaatcct cagaccatga tgctcgccca 180
 ggatccacgt catacatcat catatgttgg gcacctaaat aagccatcta ttcacgctct 240
 tatccatggg ttgaataaac actactattc aatcgcaatc aatttaccgc aaaaat 296

<210> 54272
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B3

<400> 54272

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tgcaccgtct gagttcttag gtgcttcgtg atgcagtggg caaacatacc aaagacgtga 120
tagctgtatc gtttccctat ctgagacgtg gacttattta gcttgctttg atattggtgt 180
cttatttctc ttatgaataa tgtggacacg catgttgtgt cgcccaaaaa aaaaaatata 240
aataaac 247

<210> 54273
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B8

<400> 54273

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aaaaaaaaa aaaaaaaaaa aaaagaaaga ataatttaac aacctttcta aaccatccaa 120
gctaactaac tcatacatcc aacataatat catcacaaaa attaacacca aaatccaatt 180
cacttacctc ctattaacaa cattaaaact aaaaaaacct tatcattacc caactaaatc 240
accttac 247

<210> 54274
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C1

<400> 54274

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ttctcaaagc cactcccaga tcttactgt gatgctcaat agaagagagg tgtccgccgt 120
ccccgaaacg atcaacgaaa gacatgctca gactaatatc atcaagcttg caaataatat 180
gcatttctcc attcccgaga tccgccaatt caaagctatc acccaccatg acacttgcac 240
gttccgacat taacgct 257

<210> 54275
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C2

<400> 54275

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tgatagaata caaaaggga ctttgtaagt ttccagtcaa gtaacttctg tagaatttta 120
aaagagcaat actgtaactg aaatgttgct actactttac atcagtttca tcctggggca 180
tataattgca ggtaccctat ctatagaatc ccaactggac caacactcaa ggatttggat 240
gcatgtttct tgacatttca ttacttatca acacctacca atgatactga tcccagttca 300

<210> 54276

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C5

<400> 54276

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ttgacatctg tactgattct cccgctcgtt tcaattctgt tgtttatatc acatatggaa 120
tcaaacttaa atattagcta ttacaagaaa tcttgactca ttaactttta tcgagttctg 180
tactcataat ttctatactc tcacaattat gatcacgtta caaggactct tcgataaacac 240
aatcacccaa ttcatgtatt actcctcatg caataacctg ctgttactgg atcgtttcta 300
actgcaataa caatcaaact tattcccatg attcaccaaa gtgaaaagta tcacaagata 360
atagcaatct gtactaataa tcctt 385

<210> 54277

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C7

<400> 54277

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gggtggaacc tgaatcttta cgtcgggtccc ctttagtacc tcgtcatcca aaatcatata 120
tgagatcat ggaaacgata caaaagggt agcgtccata ctatatacag aatattaacc 180

acaaccctcc aaatccttat caaccaatct cataacccca tatctcaccg aaaccacaac 240
catggtaaaa acatgggtcaa ggtaa 265

<210> 54278
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D5

<400> 54278

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ttgggctggg caccgtggag tcccaggcta gtcgaagccg tggctcttgg ctgcatcccc 180
gtgatcatcg cagacgacat cgcttctccc ttccgggacg ccatcccgtg ggaggagatc 240
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acagacgtcg tgctgaggaa gcagcggctc cttgcgaacc cgtcgatgaa gcatgccatg 360
ctgttcccc agcctgctca accaggagat gcgttccacc agatcctgaa cggcctatcg 420
cgcaagc 427

<210> 54279
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D7

<400> 54279

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atcgtgcgg cctactcca ggttgccata tcctctgcgg ccccttcgcc tgcgactatc 120
accatccatc ataaatagca tcaagcactc gaacttacag cgagattgaa aatgatagaa 180
ggcaactaca tcagatcgat ccaagaagac cccattttcc ttgctgcata ctatgtactc 240

<210> 54280
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E12

<400> 54280

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aagcagctgg acgatgatct cagcctttt ttaatacaag cttggacagc cagagcaccc 120
tccacttggt gctccacctc atgtgtggca ttcaaattctt 160

<210> 54281

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E5

<400> 54281

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gtatttgact tcattcttat tgagtcgaaa ttataaatta tggctcttctt ccatcactcc 120
aacatatttt gaaaccaacc atgaatcaag aattagtttc ttaatcccta tatctgattc 180
atttagactg taccctactg catatgatat attgtaggt tctatctatg atccttctta 240
ctactcttca ctgttcgatg atgtcctaaa caatgcatgc aatcatcaag gtgataaaca 300
aaatttttagt aatgacaatt gttcaacatc ttcatgccat acaccactac ttaaattcttt 360
tgctaatagat gtttaaagtt gactaaaaat accctttaac ttctat 406

<210> 54282

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E6

<400> 54282

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cattcttatt cgttcgtatt ttttacatac atgtgctact cccatcactc caacatattt 120
tgaaaccaac cattaatcaa gaattatttt ctttaagccct atatctgatt caattagact 180
gagtcctact gcagatgata tattttgaag cttccatcta tgatccttct tactactcat 240
cactgttcta agatgtccta aacaatgcat gcaatcatta tgggtgata 288

<210> 54283
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-F5

 <400> 54283

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 ccccttcgag gttctcgacc aggaaggact tttttagctg gttaagcttg ctacacagag 120
 gggccgcaaa gctaggccta acttgaagggt cggcatttgt cgagaacatg gtagagagcc 180
 ttcacgcggtt gctttcttcg ccaagactgg gctggattac gtttcttgct cccctttcat 240
 ggtcccgatc gctaggctag ctgcagctca tgtgcttgct tgaggggctg cctcctcggt 300
 ggcagcctgc tgtaagtgc tctggtgatt aataatacta ctatgacaga tccatatgct 360
 ctgtgaagag tattagtagc agcgctcata aaatctacaa ttacatctat attctcaact 420
 atgtaaaact ttcaaactgt tcatgcttaa aaac 454

<210> 54284
 <211> 161
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-F9

 <400> 54284

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 ttggtgggct caaaaactta gttttctttt caacctgcag cccacctccc cctgctacta 120
 ccccatcttc cctactacc tcaatctcaa gtactagaac t 161

<210> 54285
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-G1

 <400> 54285

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 gggatttgcg gcagcgatgt gcactacctc aaggagatgc gcatgggtgca ctctgtggtg 180
 aatgagccga cggatgaacgg tcactagtgc tcagacactg tcgatgaagt tgcttcgcta 240
 tggacgcata gtactgctgc aaatggagtt tcgcattgta gctgataaag tgcctacaag 300
 gtgcatccat atgtgcatag gtggcactga atcggggctc actggaccag tttgatattt 360
 gtagtaatat atatacatgt gggagcaaca taatttatgt ttcgatcatc attatccaat 420
 ttgattccct gttataatgg atcacattgg aaaaaccctt acat 464

<210> 54286
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G3

<400> 54286

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 gggcggcgaa ctactcctcg tcgccaaaac cctagccctg cttctttgcc atggcgagca 180
 gcgctagcca ggctagcctc ctgctccaga agcagctcaa ggatcttgcg aagaaccccg 240
 tggatgggtt ctccgccggg cttgtagact acagcaacat cttctagtgg catgtcacca 300
 tcatcggacc ccctgacacc ctatatgatg gaggctacgt taatgcaata atgacctttc 360
 cccagtacta ttccaacagc ccgtcatcag taagatttac ttctgagatt tggca 415

<210> 54287
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G5

<400> 54287

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 agtattatga ttctactcct gaaacccatg agtgggtgat gcattaagaa atcccaagta 120
 ggaatgcagg cattgcacat gacttcacag gaacatgccg ctcccttgagc cgtgatagga 180

atttcactga atcgggtccca ttctctagta tgagaatgag acctggtcat tcttctccag 240
gctttccact ccaagcatca cctcagctat gcaactgcagc agttagggaa gcaaaaaaat 300
ggttggaaga gaaaaggcag ggactgggag taaaacctga agacaatgga tcatgcacat 360
taaatacaga tatatttagt tctcgtgatg actctgacaa ggggttc 406

<210> 54288
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H1

<400> 54288

gtccgcggac gcgtgggtct acgttggact ggcattgctt acagaatttt gtttgggtta 60
tggatagggg ggctgttaca ttattggata agtgggtacc caggcatgcc agttgcagtc 120
ttccaacatt ttttgataag gctgagaggt taatcaccat caattccaca tccagcagtg 180
attgatgcct ggttcagttt ttcagctcct tcgacttgtg ttttagaatt caaaagtgca 240
tactgtgga ctttttggtg cttgtctaga ccatgtatct tctatgggga tcgacatatg 300
tgatgtt 307

<210> 54289
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H10

<400> 54289

tactcggttc cggattcccg gggcgaccca cgcgtcctgg gcaatggaga atctggtgta 60
tatcttaatg ataatttgca caagtcacat ttagtacata cttaactgat tgatactgat 120
ccaagtgtga actttcacga caatggtggc ctctctgtgt cttcgtctca aaattcactt 180
gtgtac 186

<210> 54290
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H3

<400> 54290

tccggattcc cgggtcgacc actcgtccgg gggaaagcat gcttaaagaa agtggtgctg 60
tatcaattgt cttcaggagc taatggaact agatggggta tgctaggaat aggtaactga 120
tgtctagcag gcagaaaatt ggttttcctt aacttcagct cagcgcatat gtgacatggt 180
tcttgacta gataaggata caaacagtac actgagcaaa caagaactca aggaatatgc 240
agatggcaca ttgactgaga ttttcattga aagagttttt gatgagcatg tccgcctgag 300
caaaattgga agtggaaaca gtctcgagat ggacttcgaa agccttcttg gatttgtttt 360
ggctct 366

<210> 54291

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H8

<400> 54291

acctacaatc gtaatgtaat gtgctggtat tctcgaatgc catatccgat agcagccttg 60
gcttggaata acgtagtggc tgactgatat gccagtaggc acctgtctag tacttacaga 120
actacaaaaa gtttgtacta tacatatatg gacaacctta taagtggcta tgtgtgtacc 180
aaaaaaaaa aaaatattaa taattttata aaaa 214

<210> 54292

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B8

<400> 54292

tcccggctcg acccagcgt tcaggatcct attgccctca cgctaccatt tccgccaatt 60
catcacagcc accagacttc gctcgcctta cgtatacacc aaccacctc cataaaccgt 120
atgcacagcc accttaatgg tatctcttca tcttctcttt cctacaacag gactacttcc 180
atctagctca tgacagatac caccttatct acattttctc atcctgtatt gctaatttta 240

<211> 86
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-D12

 <400> 54295

 ggtccggaan nccccggcgcg acccacgcat ccgcaacaag actctacaca acctgttctt 60
 cgtctatatg aggctggggtc tcttca 86

<210> 54296
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-E11

 <400> 54296

 tccggaannc ccggggcgcgac ccacgcgtcc caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaataaaaca aaaaaaaaaa aaaaacaccg aactctaaaa aaaaaaaaaa aaccaaccca 120
 acccaaaaaa caaaacaaaa aaaaaacaaa acaacaaaaa aaaaaaaaaa acaaaaccat 180
 tggcccatc tcaaatatac ttacctcaac ctccacacaa tttaaagaaa aattcccatc 240
 acttctact aaaaaaagaa ccaaaatccc catttcaaaa acaccaaca ctaaaacaac 300
 cttaaaccaa a 311

<210> 54297
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-E12

 <400> 54297

 gtccggaaaa cccggcgcga cccacgcac cgcttcattt caccatgctn ntcagcaatc 60
 gatttgctgn ggcncncnc ctcacctcgg ccgtttattt tatatcttct ccacacctcc 120
 caccanctnn anccaaaaaa tactaaacaa tatcaccttt acatactttc tataaccatta 180
 acaattacct ctatcttttc aaaaactcta tcttttatct ctttatcttt attcattatt 240

attttactat ttttttaaatt tt

262

<210> 54298
<211> 271
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-E9

<400> 54298

taaagacccc ancatcaatc gttctgttca tatactgctt catctgtgtg tggtttctgg 60
gttttctatc tttcttccac anccatccca agagcacaaa ccagatttgt accctctcaa 120
ctataataat atagttggat tccacccgca cacatatagc tgacaatcct taccttacac 180
ccaatgcata taacaattaa tatctcattc ctctaaaaag agagcctaaa gccctatttc 240
attttcaccc attactaatt ctgattaaac c 271

<210> 54299
<211> 89
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-F9

<400> 54299

ccgggtccga cgccacgccg tccggcgnga acctacaaca ccgcactcta cactactcca 60
gtctgtgaat ccgccccacc cccgcaccc 89

<210> 54300
<211> 492
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-G12

<400> 54300

tccggattcc cgggtcggcc caccggtccg agcaaattgcc tccccggagc tcatcataca 60
ggctgatccc agaccatgct aggcgncgtc ttgttctcac ttatttgccc accgctggac 120

cataggcgaa ggctctatgg tgtttaaacc ttgctctttc tgattcttcg ttgtgccata 180
 ggcaattcaa ggtgtagaat ctgaccatta ttggaaagcc aaacacgagc tggcgccaat 240
 gtgttgcata atgagaggcg gtatgttcgt gcagccagcc ttttgccgcc tgttttaatg 300
 caaaatctga ttttacttaa gcagtgtgag gggaagtgtg ttggtttatt ttattatattt 360
 tttatatttt tctattttatt ttttttttta ttattatattt tataatgtgg ttttcttttt 420
 atttatactc ttattttttt tatttttttc ttctctattt tatttttttt ttttttttgt 480
 ttattttatt at 492

<210> 54301
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G7

<400> 54301

tcgtccggat tcccgggtcg actcacgct cgcgccacgc gtccgtgctc gggatgaactg 60
 aaatcagcgg ccaaaagaaa ctcgagtgtc gtcagctaga ccatattaca tgccggacaa 120
 tttgttcgga gacctgatcg acgtgaagag ttttgccgcc ggaagcaaga tcagcaggctc 180
 taccagcatg ccgagtccaa aggggtggtgg ccagcctatg atcggtagaa acaaataggc 240
 ctctgctgtt taagataggg atgagcatat atttagctgg tagccactgt cgtttggttt 300
 gattgtaatt ttgctgtctt tttttacgtg tcaatttggc tgattttgtt attatgggta 360
 tatttttgga ttttcttttt tttt 384

<210> 54302
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-H7

<400> 54302

tcggtctcgg attccccggg cgactcacgc gtccgccac tcgtccgggc ttgcgtccgg 60
 ttattcccag gtgtcagtat ggactgggtt tgtttgtatt ccattctact gtttcacaag 120
 ttacatgtat atttatcgag tctattgaat atagttctta ttatcatttt tcatgttcaa 180

tctctttttt tcttgatcag atcaattctt ttctttaatt attttttttt ctttttttaa 240
 atttttttat atattttttt tttttttttt ttattttttt tttatttctt tattcttttt 300
 ttttttatct attttttata ttttttttat tttttttttt tattttatta tattttttatt 360
 tttttttatt tttttatttt ttattttatt ttttttatat atatatttat attt 414

<210> 54303
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A7

<400> 54303

ggtccgtatt cccgggtcga ccctcgagtc cttctgtatt atgaagcaac gtggtgagta 60
 acttccctga taagattgta tcgtaggcag ctgagttcca gagcaggatc gggttcggga 120
 tgattggtgt gggtgacatc atatatttgg ttggaggagt gattggacct gggccgagaa 180
 accaatgcat taagttgcat tctgatgttg atatctggaa cgtcacaatg tgtgagccaa 240
 cctggagacc agtgctgctg atgactcatt ttcgaggtag catctgtggc tgcgctttgt 300
 tgaggattt 309

<210> 54304
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-B3

<400> 54304

cgggtcgagc cacgcgtccg cgctgctttc cccccaccgt cccactttcg ttacgccgcc 60
 acgctttctt ttcctgtcc ggttcaacct ccaaccctgc cggctgccgc ggcggctgat 120
 taacacaata cttgtcgag agacgtaata gtttctgaac tcaccgcgct acgccccgatg 180
 tcgggagactg cggctccgat cggcctgtca tgggctccca atgcttcttc ctttgcaacg 240
 accagcggcg gcagctagat cgaccacgcg ccggatccga gcaccgcgca tggctcgctc 300
 tggaagcgca cgagcgagct 320

<210> 54305

<211> 147
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-D2

 <400> 54305

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 ccgcccccttc ggcggcatga gcnngggcct catctactgc accgccagca tctcctgcgg 120
 gcacatcaac ccggcgggtga ccttcgg 147

<210> 54306
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-F5

 <400> 54306

 ttccccgggtcg acccaactcgt ccgcagcatt tctccttgct aggcttcttt gtctacaaat 60
 aaacatggta tttttcaagg tagtcctttt tttactatct cttgagaagt ttatttttat 120
 tattttacat ttcataacat tgttatatat aaactgtt 158

<210> 54307
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-G11

 <400> 54307

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 aattgtcttt atagataacc ggtctttcct tagatacttt atacagtcna atgccgcatt 120
 ttagtcgatc tttcttctcc agttgctggt ggtgctagga ggccttgagc tgttgagggt 180
 acttgccctg cntntattat gacgtatatg tacaagtctt tgtgttgaca attacacggt 240
 gtttttaatt tcagtgatac acttccagtc cttcatacgt acttcttgga tgtttcaatt 300
 tgcattctag ttagatattg atccatctgt tctatattaa aat 343

<210> 54308
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-G5

 <400> 54308

 attccccgggt cgagccacgc gtgcgtgctt aaagagttat gagagctagg attcgtttgt 60
 gcgaacatgc aactgtctcg gggacgaggt gttaaatcga agcatgctgt ggtggaaaac 120
 ctgtaagaca acggtgggtca cctgtctcct gatgaggatc aaaatgctag tccaaaacaa 180
 actactgtga agtatatggg agtgtccctt tcagtctcca caccattttt ttgggttaaa 240
 aaatgtgctc aggtgatttt caaacgcctc tcagagaaga gtgctgattc caaca 295

<210> 54309
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H12

 <400> 54309

 tcgtactcat gggctgactc atttgtttta aaaaaaaaaa aaaaaaaaaa aaagaaaggt 60
 aaaattataa aataaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa ataaaaattt 120
 aaataaaaaa aaaaataaaa ttaattattt ttattttatc ttatataaaa aaaaaacaat 180
 taaataaaaat taaaaactta atttctattt atttatattt ctttattaaa ttaaatcttt 240
 ttttataaat aaatTTTTTT tttata 266

<210> 54310
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H2

 <400> 54310

 aaaaaaaaaa aaaaaaaaaa aaaaattaaa tttaaaaaaaa aaataataaa aaaaaaagga 60
 ag 62

<210> 54311
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H5

<400> 54311

actcgggtccg gaattccccg gctcaaggaa acctttatcc atggctggag gtatcatact 60
 acttctgctt gtcaccccc tgcgtcgtgag aagggaatgg agtgtcatgg gggagagatc 120
 caactcgttc tcacaggact ccaataattc tagccctgct gaaaacaaac tcgaaccagg 180
 tcctcttttc atattggtta tattggttat ttattagga tcagtgaact tcgaattgag 240
 taaatctgta attacttcta cactactaat tatcattatg tgactgctcg taaaggtgaa 300
 aagtccttcg catcggaagc atactgtgag 330

<210> 54312
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A12

<400> 54312

gtctggaatt cccgggtcga ccgacgcgtc cggcatgttg gcggagatat gttcaagtcc 60
 attccctccg gtgatgccat tttcatgaag tagtttctgt cgacgtggac cgacgacgag 120
 tgcacggcca tcctgaggaa ctgccacgcc gctctgccgg acggcggcaa gctcgtggcc 180
 tgcgagccgg tggtgcctgt ggagacggac agcagcacca ggacgagggc t 231

<210> 54313
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A3

<400> 54313

tcccggctct tcggaattcc cggatcgact ccatgcgtgg atttcctcac caaggaggtg 60
 cagttcgagg acaggctctt cactctgcaa atagggggca ctgctggcca ggaaaggttt 120

cagagtctcg gcgttgcaatt ctaccgggga gcagattggt gtgtcctagt ctatgatgtt 180
aattctatga aatcatttga caacctgaat aactggcgag aagagtttct aattcaggct 240
agcccatcag atcctgataa tttccctttt gttctgttgg gtaacaaagt tgatgtagat 300
ggtggcaaca gccgcgtggt atctgagaaa aaggcaaagg catggtgtgc ttccaaaggg 360
aacatcccgt actttgaga 379

<210> 54314
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A7

<400> 54314

aattccccggg tcgaccacg cgtgcgcgcg gatgacatat tgaaaaatgt ggaatatgat 60
gctctaaggg ttattttgac ggcttcatt ctgtcatatc gtttaagccc acaatggtaa 120
cgatactgtc ccctgagggt gcagaaaaag aagcagaagc tgggtgggaag acgggtgacc 180
tagattctta tgagattgaa ggcggtgaga caaaagcaga gatattgcaa aacctagctg 240
agttccagtt ttcttgtgtc atgtacaatg gtgccctaga gaatgcatgc agtgagcttg 300
gagcccgtat gtctgccatg gacagctcta gcagaaatgc tggcgatatg cttgatcgtc 360
tgacgcttac ttacgacagg acacgcctag cattca 396

<210> 54315
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A8

<400> 54315

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atgctctgca ggatttctag actttctaaa ataaatggaa cccatacagc tatgaaatca 120
ggtatgcttg cggcggaagc aactttcaag tccctcgttg aaggatctta catggaactg 180
tactgctaga acctcatgaa gtcattggatc tggtagaac ttcataaagc ttgtaattat 240

<210> 54316

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-B12

 <400> 54316

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 ttttatatct cacaactaaa aaattagtct gcaaccttgc tgtagtgcc ttttcttctc 120
 ttgtcaatgt gtccttccat cttgtattag tttgctttcg tttttacatt aactagaaca 180
 catgctctgg ttgtgggttac ctctatttat gctacaggct tggtagcta ccatatcact 240
 cgctatctac aacgctagtt tgccgcacgc agaaatatta tgtgatattg attgtcgagt 300
 tcttttttct atatcaaaaa atttattact tgtattcata gtcacatttg atgcatttat 360
 gtatacatta ttaatttcat atataggctt ttgatcattt cggcatgtta aaaaagaaga 420
 aatgcttcta g 431

<210> 54317
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-C5

 <400> 54317

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 tgctccgccc gcgccggtac ganggaggtg caggcggacg aggaggaggg atgagtctct 120
 tcgggcttgg acgaaaccag aagacattcc gccccaagaa gagcgctcca tcaggtagca 180
 aggagcaca gctccgaaag cacatagatg cactctcgg cagtggaaac cttatggaag 240
 ctgtgaggtt gcctcctgga taggatatca atgaatggct tgcggtgaat actgttgatt 300
 tcttta 306

<210> 54318
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-049-Q1-K1-C7

<400> 54318

tgccgtcttg ctctccctga ggtcccgatc cggcattctc gcntcgcgcc gatggtatgc 60
caaccttgct ctccaatttt ggcgacccca cattcccacg gcgcttgaag aaatcctagc 120
cccgtgctgc cgcgctgcag acggcacgca cggcatccat ggagaacgac gcgaaggagg 180
cgaggcaggg gcagcacagg gtgttcccgt gggggatgct caaggtgttc ctgctgctcg 240
gcttagggct gtccgcggcc gg 262

<210> 54319

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E10

<400> 54319

ggaattcccc gaccgacgcg tgcgtccacg cgtccgggac gccttccacg gcgtctagtt 60
accacggcgg cgtccacgac ggcacgaccg tcttcctctg ggagtgggcc aagggcgaca 120
accagcgtcg gaagatcctg ccctggtgaa cgtgaacaga gacgagctag atgaatccaa 180
ggaaccttac ctagctgctg ccgccgtcgc ctaattcgtc ctgctccgct ctaagctgta 240
tctgtcttgg gtttcgcgta ctcggttcct gaaaggacga ataatatata gcatgcatgt 300
accggtagcg accatgtctg aatga 325

<210> 54320

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E9

<400> 54320

ttcccggtcg acccacctcc gccacctccc ttactgtctg gtatgatgtt atcagacatg 60
atcaaccttg tgggcattac ttcataacac ccatatctat ctttacttaa cagcaatcac 120

<210> 54321

<211> 96

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-F12
 <400> 54321
 attccccgggt cgaccgcacg cgtccgcacg acccatgaat gaatggctctt tggctctttg 60
 tcctccagtt cgttatgtga actctgccgt gctact 96

<210> 54322
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F7
 <400> 54322
 tccccgggtcg agccacgcgt ccgcgcacgc gtcgcgcgtc ttctcttctt tctaccccaa 60
 gcgcaacgcc cgtgactcgc tttccctgtg cttgccctc tccccatcgg gtttgcggtg 120
 ttcattggtcc atctggccac gatccccatc accggcaccg gcatcaacc agtcaggagc 180
 ttgggcgctg ctgtcatcga caacaacgac caggcctgtg atgaccactg gatcttc 237

<210> 54323
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H10
 <400> 54323
 attccccgggt cgactgcgcc cactcgtcac gcgtccgctt tatgatcgct ggtcatctgt 60
 ggatgatata ggggccctct ctgggggtata tcaaatgttg gagtcagata ccgccaaaagg 120
 agtttggtac tttaggcaat ctttgcttct tctcagatta aactgtcctg aggcgggcaat 180
 gaggagtttg caccttgctc gtgagcatgc tgcgagtgat catgaaaggc ttgtctatga 240
 aggatggata ttgtatgata ctggccactg caaggaagga ttgccgaagg ctgaagcatc 300
 cattgcaata caaaggatcat ttgaggcatt ttttctgaaa gctaattgctt tggctgattc 360
 tagtcttgat cc 372

<210> 54324

<211> 135
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-A5

 <400> 54324

 ttcccggtc ttccacgcg tctcctgcc cctgggtcat gccttatttt aagtctccag 60
 gttacagtcg agtacctcaa taaggggtat tgttataatt tttcattcgc cttcacaccc 120
 tctcatctt cacc 135

<210> 54325
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B1

 <400> 54325

 agtgttcac gatgttttag actacacatt tgtatatttt gtcgagagca tcagtttctg 60
 gtacactacc aaaa 74

<210> 54326
 <211> 76
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B4

 <400> 54326

 attcccgat cgaccactc gtctccac acatccgta taccactatc cgttttttaa 60
 tttgagtcgt cttgtg 76

<210> 54327
 <211> 60
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B6

 <400> 54327

 cccgggtcga ccacgcgtg ctcaaatcaa aagtcacaga taaccttacc aaattatgct 60

<210> 54328
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-050-Q1-K1-B9

 <400> 54328

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 gtcagttgcy tgccatgnca tgggtctgac tgatatatga tnatnctcat nccnnntcn 120
 tntcctcccc tggcctcctg gggcgcttct ggcgagcagt gtgttggtgt gtgtgggtgc 180
 cgcacgctag caggctagcc atgtgccctg ctgtgttggtg tcaccatcca tctataatct 240
 tatccatacc ccaccttttg tgtgatg 267

<210> 54329
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-C4

 <400> 54329

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 ctcttctcct ccgtctctct actacgtgct ctgtccattt cttactccac ctaccactc 120
 ctcatccatt acaggtcttc atcccattct aaccatgata atctttttat tctttcttat 180
 ttctatttta ttaaacctct ttttatattc aattttatcc atttttatct ttccatataa 240
 aaaactatct tttaaatttt atctttttaa attcttttca atatccatct caatcaatca 300
 caattttaac atcatcttct actttaattt tatattcata ttcattctct tt 352

<210> 54330
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-C6

 <400> 54330

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attgtgtatt ggtaatggac ccttataagg cgattacagt tgctcaaaaa gggaactttg 120
gaaaatgcat tccgaataat ttcaaatagt gcctataaaa gccctttatc aatcattgac 180
tttttctaata tatttcattt aatccttaat tttcccttta ttaatatatt tactttctat 240
ttttttttat tttaccttat atatttcctt taaatttttt ttttatctat tttttaattt 300
atattttttt tatattggtt tatttttagt ttttataatt tatttttctt gttttttaat 360
tatttatatt ataatttttt tatttatatt ttttatatta ttatatatct tttttatttt 420
tttttttttt a 431

<210> 54331
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C7

<400> 54331

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tcaaggactc gaactcacgc tttatgttac cttttcatga tagctcacta ctgctattgc 120
tataataaca ctataatact tgataactaa tataatccca ttttcctgat taattttatac 180
tttaaataat ctcacatgtat tgtcatactt taactatctt cttctttttca tttataaata 240
ttattatttt aattttttct cttttatttc tttttaatat tcttttttat cattttattt 300
ttttctttat tttttatttt tatttatatt ttttttttat tttttttttt tattatttat 360
tttttttttt tttttttttt tttttatttt tttttttttt tatttcttta ttatatatttc 420
tttttatata ttttatatta atttttataa tttt 454

<210> 54332
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C8

<400> 54332

attcccgggt cgaccactc ttcctctttt gttgatgtcc tcaaggattt aggttctctc 60
cctagcatca aagtttacga taacgcaaaa aattttattt gcactccaca tcacaccacc 120

atccaatacc attactacct tatcaaacat tactccaaat actac

165

<210> 54333
<211> 226
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-D10

<400> 54333

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acagcatgaa gatggtcacg gttctcaacg ggtcttggct ctgtcagctg ccaccccctc 120
tgcaatgcaa atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg 180
cctgactact atgatgggag cgggcgggct gtacccttac gcggag 226

<210> 54334
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-D8

<400> 54334

accggtctcg aattcccggg tcgaccacg cgtgcgcgcg tcgggtcaaa ccctaagcag 60
ggagttgatt tatccgctgc agccatgagg aagttggagt cttagtctgt caaggatgcc 120
atctcccaga ttgttgggga tgccaaggag aagaatagga agttcactga gactgtggaa 180
cttcagattg gtctgaagaa ttatgatcca cagaaggaca agcgtttcag tggctctgtt 240
aagttgcccc atattcctcg tcccaagatg aaagtgtgca tgcttgggta tcccagcat 300
gtttaggagg ccgagaagat tggacttgac tacattgatg ttgaggctct caagaaaatg 360
aacaagaaca agaatc 376

<210> 54335
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-E10

<400> 54335

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ctggaacctc agcaacctgc ccacgggggg cgtggtcgac cgctgctca accagtggcn 120

gacgctncan gcggccggcc agaccgacgc gcacggcgcc tacagcttca cgggtacct 180

gggggagtac gtccctactg tcagctacaa caacaggacg acgcaatcca ctttctcgct 240

gtcgccggga gacgagacca ggcacatcaa cgttcaaagt tgatgcgcca acattatatt 300

tagggctcct cggatcggac tacttattac tagctgatgt agtgat 346

<210> 54336

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F1

<400> 54336

attccccgggt cgaccctctc ttcttaaaga aaaaaaaaaa aaaaaaaaat aaaaattaaa 60

aaaaaaaaaa aaaaaaaaaa ggaaaaagtt aaattttaaa ctcatacata ccacacccta 120

acaacttcta taactttact ataaattaat ttaaattcac ttcactttac aactttctaa 180

actcttaaaa cacttaaaaa aaccttaactt aatcccaatt caatcacatt tccactaaat 240

ccatctttct t 251

<210> 54337

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G3

<400> 54337

attccctggt cgaccctctc ttctgctgc ctcccttttt tttttttttt tttatttttt 60

ttattttttt tattattttg taaatgttaa atttaaaatt tactttttct aacccttaaa 120

ataaattata ataataaaaa tttttacatt aaaaaaaaat actttacaaa ataaaaaaat 180

actccatatt ttaaaaaatt tcaaacactt tttataaatt actttaaaaa atccaatttt 240

aaaaaaaata taaatactat tt 262

<210> 54338
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-H1

 <400> 54338

 gaattcccgg gtcga'cgac gcatagctcc caggcatccg caccacacct tttctgcttc 60
 ttctctctcc tcttagcaca gctgacactg ttcaatttta aacctgtgat cacctctccc 120
 agcatctgca agtgcaactg ttactccatc tgctcctaca ccagctcatt catcttcattg 180
 ttttttaact tttatacctt ctataccatc atttttaata cc 222

<210> 54339
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-H2

 <400> 54339

 ttcccggggtc gacccactca tgccttgatg attgtctaaa atatttctcc ggtttaaggt 60
 caactaatta aactaacgc aagggttaaa tctaaaaact taccaaccta cccctattac 120
 agccttacat atcataccat catctccatt ttacatctta tcatctactt ctttttattg 180
 ctatcaaact atatccacta caaatatat 209

<210> 54340
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-A10

 <400> 54340

 accggnccgg antacccggg tgcagcgacg cgtccgcggg agtacaaggt caaggatctc 60
 ttgcatgcgg acttcggccg cctcgagatt naggtntctt aggtcgaaat gcccggcctc 120
 atngcgtgcc gcgccgagtt cggcccgtcc aagcccttcg ccggcgctag gatctcgggg 180

tctctccaca tgaccatcca gaccgccgtc ctcatcgaga cctctaccgc gtcgggcgcc 240
ga 242

<210> 54341
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B1

<400> 54341

attccccgggt cgagccacgc gtccgtgcag ctgcaagaag tttgaagctg ctgggattca 60
atgctgtcat gtactgaaag tncgggatct caagaatatt aaagaacttc cagaacaata 120
tattttgaag agatggagga aagatgctcg ttctgttcaa attggggagg aacctaccta 180
tgggtctggc agtgtcatgc gatcaacctc agaagctcga ttcagtatca tgtgtcgggt 240
ggctagcttg attgcttcaa gagctgccaa attcgaggat ttgatttcat atatcgaaag 300
ttagtcaaatt gcttttcaga aacatc 326

<210> 54342
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B10

<400> 54342

ccggnacgga aaacccgggg cgacgcacgc gtccgactcg cctctgcct tctgcgctc 60
tatttctgcc tctgtccctt gcaagttcaa tcgcatctcc atccatgggt aaagagaacc 120
cccacatcaa cattgtgggt attggccatg tcgactctgg caagtcgacc accacaggac 180
accttatcta caagcttgga ggcattgaca agcgtgtgat cgagaagttc gagaaggaag 240
ctgcttaaatt taaca 255

<210> 54343
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B5

<400> 54343

aattcccggg gcgagccacg cgtccggcga gcatagaact cccgctcaca tctttcactc 60

agcacacca ctcac 76

<210> 54344

<211> 110

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-C1

<400> 54344

aattcccggc tcgacccacg catccgtggt gtttactgtg acccttatcc cttatatcaa 60

gttgatcata ccatcactta tccagatntt ttattcttct ggggtctcat 110

<210> 54345

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-C11

<400> 54345

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tctatctccc gatctcgatg gcgaaccctc ncgtcttttt ttacatgacc gtcngccgcc 120

ccccggcggg ccggatcgtg atggagctgt acgccaacga ggtgcccaag accgcggaga 180

acttccgcgc gctgtgcacg ggcgagaagg gcgtgggcaa gtcctggaag ccgctccact 240

acaagggctc caccttccac cgcgttatcc ccgagttcaa tg 282

<210> 54346

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C12

<400> 54346

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 gtgcattggg actggggaga gcatcaacga ggagggcctc tttccatggt gcaaggggtca 120
 caacctcggt caagagaaga aggttcttga ggttcatggt gagaagggaa tgcaacacaa 180
 ccagaagatc accttccctg gtgaagctga tgaagcgcct gataccgtca ctggaaacat 240
 tgtattcgtc ctccaacaaa aagaccactc caagttcaaa aaaaaaggtg aagatctctt 300
 ttattagcac accctttctc tgacctaaac tttatgtggg ttccaaattg ttcttacac 359

<210> 54347
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C9

<400> 54347

ggaattcccg ggtcgaccga cgcgtccgtg agcattcaca aacacaccta gcgtagctct 60
 actagcaacg acctaacaac aattgcttgc atgacattat acgtccttgc cctcctcgcc 120
 ctttttgtga gtgcaacaaa tgcgttcatt attccacaat gctcacttgc tccgagtgcc 180
 attattccac agttcctccc tccagttact tcaatgggct tcgaacaccc agctgtgcaa 240
 gcctataggc tacaacaagc gcttgcgggc agcgtcttag aacaaccaat tgcccaatta 300
 caacaacaat ccttagcaca 320

<210> 54348
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-D11

<400> 54348

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 ccctatgtgc gtgccgaccg gcgggcggcg cnaggttatg gctatggacc cggacgcggt 120
 cgccaaagcc ttcgtggagc actactaccg gacgttcgac accaaccgcg cggcgctggt 180
 ggggctgtat caggagacct ccatgctcac cttcgagggc cagaagttcc agggcccatc 240
 cgccattgcc ggcaagctcg gatctcttcc cttccaggcc tgcgagcacc agatcgtcac 300

cgtcgactgc caaccgtcgg ggccctcagg aggcattgctc

340

<210> 54349

<211> 194

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-E3

<400> 54349

ctattcccg ctcgacccac tcgtccgcag ctagctacat ggactcctgc ttttactttt 60

ctcatcacgc cactcctgca ctgtccgcct ttttctcta ctcccctgcc tgccaccaac 120

tgccaagttt ccaagtgcatt ataccctccc tgctcaciaa acaactccac cttttactaa 180

ataccatcat gttc 194

<210> 54350

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-E9

<400> 54350

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cttcccttgc gtgtttaccg acgccaccgg ccnccggtat attttcaccc aactccntcc 120

ctctctcccg gccagatag atctttcccc cgtcctccct cgccttcgcc ttgcgccgga 180

ggagatttcc accaccaccg ccgaaccgcc ccgacctcc tcccctctcg cgctatggcc 240

cagactgttg tgctcaaagt tggcatgtcc tgggagggct ggggtggagc cttccaagcg 300

gtccctggcc agattgaagg cgtccaggcc taccacgtag acatcatgga acagaaggtc 360

accgtgaaaag gcaatgtgac acctga 386

<210> 54351

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

ggtcgtttttg acgcttcctc tatgtactat ctt

333

<210> 54354

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B10

<400> 54354

gaaagggaca ttgataactt tttttcatat aaaacacatt cactggaaaa aagattgtaa 60

cacaagcggt tccacggcaa ataaaggcta ctctctagta aaaagattta caattccaaa 120

agggaatgct ccgaacgggg ctacaagcat tttggcaaat gaacaccttt taacgaccct 180

ttgggttaaaa taaagggtcat aacacaatag ctgggtccagg cttttaacct aatccacaaa 240

tttgggtggaa aaaaaatagg cctgacaacc ggggttaaccg aaaagcccaa gaaccctttg 300

caaaaccctt cagaaaaaac aattaaa 327

<210> 54355

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B2

<400> 54355

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ggctgctacg gcggtggcaa ccgtggcggc ggctacggca actccgacg gaactggagg 120

aactgagcgg tggggcccg cgggccaagt tatectgttc gctaccgtga tgtttaccct 180

agtcagagg gtttatcttc gttcgtgtcg tgtttgttgt tgccatctg tgtttttgat 240

tgcaaggtcg ctctgtgtca gttgttagtg ctgtgttcat cctcggtttc agcagaccca 300

tgcataaac agcatggact gcggatcgat ggatgctgtt acccccgta ggctttattc 360

taagttaatc ttaaggaaaa 380

<210> 54356

<211> 211

<212> DNA

<213> Zea mays

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E12

<400> 54361

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 ttcccaaaac aaccgtttgg accaactcgt gctgggatga gtttgtgagc ctgccagcta 120
 ttgttccacg gggccctggt gcactactag gtttgggtgc tgggacatca gcacatctga 180
 tgctaaagat ttggccttgg ttacaactta ttggctggga gatcgaccct atgataattg 240
 aattgtcaag ggattatattt ggtatgtctg atttagagaa agccacagaa tcaggtgggt 300
 cacttttgggt gcgcattgggt ga 322

<210> 54362
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E2

<400> 54362

cccacgcgtc cgaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaggga 60
 ggg 63

<210> 54363
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F12

<400> 54363

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 tgctgtggcc attgaagcgc tcgagcttta tcgcgaaagg gacattccccg gccatgtcaa 120
 gcaaatcgtc ccaaagtttc aggacgggat tagggcactt gcagacagtc cgattatcgg 180
 agagatacat atcttgggga tgattatggt gaccgaattc acaaactaca tgttaccgac 240
 t 241

<210> 54364
<211> 543
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-F5

<400> 54364

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ttcgtcctat gtagttctct cagnttgatg tcgccctggt gatccagtgg aggagtcctc 120
ctctcggggn ntatatgac atactccact actcggcgt ccgcactcca tcgctggtcc 180
agtccttct ctcgtcgtct ttcctctta ctggcttcgt atgtctnnnt ctcataaacc 240
ctactctgct ccccatcatt atgcctacgc nnccttctt ctccactt tctctctct 300
tctctttta cctttccat ttctagtaag catctactcg tgctccgctc tttctcttc 360
gatgtcagtt cttctgctn ntcgtcgtcg ccgttttcaa gtcgttcgcc taaatacctt 420
ctttagcttg catgccactt nctactgct gctagcaaaa gacctttatt actagtgtca 480
attaagttac gaaaaaata ataaatataa aaaaggctcg cccgtctaga ggatccaagc 540
tta 543

<210> 54365
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G3

<400> 54365

ggaattcccg gctcgacgca cgcgtccgtg gcccgacccc gacctctgct ctctgtttgc 60
cggttgtgct aaatttctcc atctggtctg tactggattt gcagtcaatg ctactgggat 120
ggccaaccaa ctacaactag gaaatagggt gccctgggca aactattcaa ctactaat 180
cgcgactcac cactagtcgg ctagtgttg ctcaggtgac tagacttgat ttatgatttg 240
gaaacactag tagctgtta tcttttattt acgctagtta tctcaaaa accaccaa 300
gttattatac acattcgtag caatcgata aggttatatt atgctacagt gaacgatgtg 360
ccaaaaaatg gataagcgtg ttcatttaaa ttcttagaga gccattttat gtccttgctt 420

gatacaacaa catttttgatt ta

442

<210> 54366
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G4

<400> 54366

taccggtccg gaattcccgg cgcaacgcgtc cgccgatgtc cgccatggag accgacatca 60
acgcgccgtc gcccgcacca gccggcgagg gagcctccgt ggtcgggtccg tctctctcat 120
cctcccgcga gcccaacaag cgcttcgaga tcaagaagtg gaacgccgtc gcgctctggg 180
catgggatat cgtcgtcgac aactgcgcca tctgccgcaa ccacatcatg gatctatgca 240
tcgagtgccg ggccaaccaa gctagcgcca ccagcgagga gtgcactgtc gcttgggggtg 300
tctgtaatca tgcttttcac ttccactgca tcagcaggtg gcttaagact cgccaagtgt 360
gccattaga taacagtgag tgggagttcc agaaatatgg ccactagtgc ctgggcaccg 420
tcatgtgatc gtggggcttt gctgccactc aagtgtttt 459

<210> 54367
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-G9

<400> 54367

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tccccttttt cggcgcgcca gctcgcccga gatgggaaac tcgagatcgg gtgtcgctgt 120
gaatgacgag tgcattgtca agttcggcga gctgcagtcg aagaggctgc accgcttctt 180
aactttcaag atggacgaca agttcaagga gatcgttgtg gaccaggtcg gngatcgcg 240
taccagctac tatgacttca caaacaagcc tcccgagaat gactgccgat acgccatcta 300
tgatttcgac tttgtcactg cagaagatgt ccagaagagc cagatcttct atatcccatg 360
gtcccatcc ttcggcaaag tgaagagcaa gatgctttat gcaagcttaa accaaaaatt 420
caagaatggg ctcaatggca ttcaagtgga actgcaagct act 463

<210> 54368
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-H2

 <400> 54368

 catgaatact cgatctgctg tactgaaatt attagctgat tttccaattg acttgggaca 60
 atgatgaccg aagagagcag ctttaagaaaa gtggcctggg aaaggtcatt atgtttttgt 120
 ccaaactctga tgaggagacc actgcaaata ggaaattggc taaggagctt gttgataaat 180
 ggagtcgacc aatattcaac aagagcacga gatttgaaga catgaggaga tatgatgatg 240
 aaaaaa 245

<210> 54369
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-H3

 <400> 54369

 tcgattcccg gtcgaccac gcggtcgaaa aaatcaaaaa atacaaaaca aattttatac 60
 aaataaaaaa aaaaaaagag gggcggggta ctaatcctaa attacatcgc gtgcattcta 120
 aaagatccct cttctctaac gccacctaac ttcaataaa 159

<210> 54370
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-H4

 <400> 54370

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 caatccttcc ctggggatct gtataccctt gagcaagtac aggtcaacta tgaggttctg 120
 cctgggtggc aaagtgacat ttcttctgtt cgaagatacg atgaacttcc ccaagctgcc 180
 cgcctttatg tggagaggat agaagaactt gttggtgttc ccgtgcacta cattggtggt 240

ggacctggca gagatgctct catatacaag taaaagcaac tttatttggt ccttggttgg 300
 gcggaaacca ggctgggact cgggagcatt tgcattttct tggcgtggta acttttgata 360
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<210> 54371
 <211> 82
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H9

<400> 54371

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 ttatgctctg actcaaactc aa 82

<210> 54372
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A10

<400> 54372

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 cgtggtggct acggttatga ttatggctat gccccagag gcgggtacta tgaagagcaa 180
 gacgaatact atgatgagcc cgaggaatat gtcctctccc ctggccgcgg acgtggcaga 240
 gggagaaggg gcggcatgcc ttggcgtggg cgtggaggcc gcggggccacc gcgcggtggc 300
 cgaggagct actactaggc gcgagaaatg cgacgtgccg aatgcgtgtg cttattagtt 360
 atc 363

<210> 54373
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A2

<400> 54373

ccggtctcgg attccccgggt cgaccgacgc gtccggatgg cggcagcacc ggacgggacg 60
 cgggtttactc ggagtcgacc ccgatccaga ggaggagata ttcattgccga gtgggtgtgcc 120
 gtacctatct acaattttgga cgacgtgccca gcagtagcta gcgatgctga tgtgcgtaca 180
 tgaacaaggt cgaggagcca gacacgatgt gcctatgcat ggagctcagc tcttagctta 240
 tgaactatgg tcagatagag catgcgcaga acgcct 276

<210> 54374
 <211> 197
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-A9

<400> 54374
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 accccaccag ggtcgccaag gccatcaatg acaaggcctg cgatgctctc ctgttgaagg 120
 tgaaccaaatt cgggtctgtg accgagagta tcgaagctgt caggatgtcc aagcgtccg 180
 gatggggagt gatggcg 197

<210> 54375
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B12

<400> 54375
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 caccacaac tcgggcaagg ggttcagctc cagcgtgatc acacgaacaa cgtctcgaat 120
 accatcgtcc atccccggcac ttgaaagaac gagcacatca cagattcatg gtatctga 178

<210> 54376
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B4

CCGTTTACTC GGAGTCGACC CCGATCCAGA GGAGGAGATA TTCATGCCGA GTGGTGTGCC

<400> 54376
 ccggtctgga attccccgggt cgaccgacgc gtccgcggag gcgtgcgcgg acgcgtggga 60
 aaaataaaaa aaaaaaaaca aaaaaaacag caaaaagaaa attttctaga aaagagatag 120
 ggtgcgtcat ctggcacaga ctgcagaaaa tccaaggaat ccgtatccta cacgtacttg 180
 catagcgtcc acaagctgac ctctgaatcg gacgtgctcg atgatgagtg cacgctgacc 240
 atggagacgc gccacatcga gaacaatgac gtg 273

<210> 54377
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B5

<400> 54377
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 acatgacttc acaggaacat gccgctcctt gagccgtgat aggaatttca ctgaatcggg 180
 cccattctct agtatgagaa tgagacctgg tcattcttct ccaggctttc cactccaagc 240
 atcacctcag ctatgcactg cagcagttag ggaagcaaaa aaatggttgg aagagaaaag 300
 gcagggactg ggcgtaaaac ctgaagacaa tggatcatgc aca 343

<210> 54378
 <211> 468
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-C12

<400> 54378
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 cttgaacagg ttattgtttt ggttgatgct tctgaggctg acgaattttt agaagttgct 180
 tcaaagcctt tagaatcatt accatatgat tctcctgggc agacctttgt ggcttttgaa 240
 aatccagaaa gtgtcattgc caccggcaag ttctcaaata tcctgaaatt ctttgntaaa 300

gagggatgatc catcncacgg gtgaagctga agatgatggt gtcgaggatg agtaccagct 360
tgaagatctt gaaatcgttt ctgctgatta tatgttgaag gtgggagtat ctaactttcg 420
aaatgcctgg gaaaacatgg attcagagac tgagcgagtt gacgagta 468

<210> 54379
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C4

<400> 54379

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aatattaaaa aacaggaaaa aaaaaaaaaac ataaggaaga tttacaacgg gagaataggc 120
aaaccacaaa acgggcgcac gctctagatg agtcaggcat acgtccgcac tcatgccccca 180
tcataacaag cttatgatcg agatcaatat cagtgccatg cccgttcaga tccaacc 237

<210> 54380
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C9

<400> 54380

ccgggtctgga attcccgggc cgacgcacgc gtccggcagg aagccgagct gcatgcccag 60
aaggttcagg aacggaaagc cctcattggg gtcaggaaca ctgcggacac cgcgtatcta 120
cagcatcgag aagagtcttg gagagtacag ggacaagatc ccggcagagg ttgcatctga 180
gategaggca gccatcgctg acctccgcca ggagatggcc tcggatgaca tcgagaagat 240
caaggccaag cttgaggctg ccaacaaggc tgtctcgaag attggtcagc acatgtcagg 300
tggtggctct ggcgactcac agtcgggata tggacctcag ggtggcgggtg accaggcgcc 360
ggaggcagag tatgaagagg ttaaaaagtg aggctgcggg aagttgaagc gaaattgtag 420
tgacctgttt agaagtagct actctttttt gggaacac 458

<210> 54381
<211> 341

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-D11

<400> 54381

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 ctcccgtctc cagatcgctc ggcgnggatg ggggcagcgg tctttccagc gctgctgctg 120
 gccgtagcgg cgggtgcttct cctaccgggtg gcagaggccg tgtggctcga gctcccgcgg 180
 tcggggacca agtgcgtctc cgaggagatc cagcccaacg tcgtagtgct cgccgactac 240
 gctatcatgt acgagtccca cccagctcg cattccaccg tcgccgtcaa gggtagatca 300
 ccctatggca atactgggca tcataatgga aatgcttcaa c 341

<210> 54382
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-E11

<400> 54382

 cggaattccc gggtcgaccc acgcgttcga tcccttggct tcattgccct tccaggcact 60
 gtttttaaga ttgcaacagc tagctagtgg cgcggtgac tttctactgg gaaaagataa 120
 gatacaaaag gttttactct caaggctaac tgaaacagtt atcatgtggc tctccaatga 180
 gcaagagttc tgggatatct ttgacgaccg atctgtccaa ctccagcctt cggggctgca 240
 gcagcttatt cttgatatgc acttcattgt cgagattgct gtgtgtggaa ggtttccata 300
 tagaccagtt cagcaacttg ggtccacaat cataaccaga gcagttgcag ctttctcagc 360
 aaggggtgtt 370

<210> 54383
 <211> 469
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-E2

 <400> 54383

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 gggatcaacc ccaaggccaa gccctactac ctctttgatg gctacgccca cctttcgtcc 180
 gggcttgccct gtgggtctcgc tgggcttgca gctggcatgg ccatcggcac tgctgggtgat 240
 gctggagtca gggcaaagtgc gcaacagcca aagcttttcg ttggcatgat cctcactctc 300
 attttcgcag aagcgcttgc tctctatggt ctaattgttg gaattatcct ttcgtctcgc 360
 gctgggtcaat cccggccgga ttaagtgcac caccattctg tgattaccga accgttaatt 420
 atgctattct gagaggattg gaactctatt ccctggccta gttaatcct 469

<210> 54384

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E6

<400> 54384

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 aaaaaaaaaa aaaaaaaaaa aaaaccgaaa cttttttaaac cttacatgcc aaaaccaaaa 120
 aaaaaatcca aattaaataa caccgaattc cctcacctta aatttccaac gtaaaaacct 180
 caaaaaaccc tcccataacc caattaaata cccttccaca acaacaacct ttttccaaaa 240
 aacctctaac acaccacca aaaacc 266

<210> 54385

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F2

<400> 54385

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 ggacagctaa caataactac ctatggacat tttcaagggt aggggtctaa gcctcactca 120
 tatacctcgc acacgacgat gtgatgccaa ctctaagctg aacatcactt acaacaaatc 180
 gtatcggaac ctgcacacca tcaagccttt tctctacaag cctgacacct tccgtctgtc 240

tagacattaa acaacacatc ttgtataaac acatacgata ttacatacag gaagaaaata 300
tgtattcctg ccatgactcc atatgaccat atataagtaa aactgtaca atgtaaatta 360
aa 362

<210> 54386
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F6

<400> 54386

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ttgttctgtt aaaaaatggg aactctcgcg atcagcaatt cctacctgtg cctaagagag 120
ctagaagtat cctggttagct ggaagtcatt ctagcaattt ggggtaccag tgtggtggat 180
ggtcaatcca atggatgggg gacagtggta atatcacaac tgggacaaca attcttgatg 240
cgataaagtc taccgttgct gactcgacgt ctgttgctta ctctgagaac cccgatgaca 300
gtttcatgaa gcacaatgac ttctcattcg ctatcgtcgt tgttggcgag ccaccatacg 360
c 361

<210> 54387
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F9

<400> 54387

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tggatggtgg catgcccggc ccgcatagtc tgtctggtgt tgctgccggc ttgaacggag 120
atcatcgtct cttggatccg cttacgcttg cgcgcgccct cacctagaag gccgcacggc 180
aatggaacga ccttgctacc aagggccatg ttgattccca atggtcctca tgttcttgcc 240
aatattttgg tctctt 256

<210> 54388
<211> 387
<212> DNA

<210> 54391
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-054-Q1-K1-A11

<400> 54391

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 accatatcgt tctctctgct ctcttcccc gctaaaccca ccatcacctc caccaccata 180
 tctaccctt cccaagacc ctcccgctcc acccatgtcc atttctcta ttacgcccgc 240
 tgctcctcc tccgccttcg cgcgtcgtct caatatacta cgacttcgtc caccctcgg 300
 tctctgcctt cttattactt ccacaacctc atttactacc ccaactactt tcgcattttt 360
 tacaccactc tgttcgtact atatcattca 390

<210> 54392
 <211> 71
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A12

<400> 54392

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 taaattcaat t 71

<210> 54393
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D2

<400> 54393

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 ataaaaataaa aaaaaaaaaa aaaaaaaaaa aaagaaagaa taaaaaaaaa aaaaataaaa 120

tacacacaaa tacaaaaaac ttaaaaaacca aaaaaaacaa caatactact tttcaattca 180
 ttgaccctta ttcttaatct cttcataccc tctccttcac ttttccc 227

<210> 54394
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D5

<400> 54394

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 aaaaaaaaaa aaaaaaaaaat aaaaggagca attttaacaa aaaaaacaaa aaacaaacaa 120
 ctaaaacaca aacaataaaa aaaactcaaa caaaaactta cacaaaaaaaa aaaaaaaata 180
 cttaccacc aatcaaccac cccaattttc ttcttaactt attctttctca cactacatca 240
 ttttttatat ctcccccccta t 261

<210> 54395
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D6

<400> 54395

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 gaccagtggt ctttcgtcct tcttccatca ggacatgggt tcgaaccca cgcgtgcgtc 120
 tagcctgtgc cggtcgccgt ttggccatct atatagacgt gcagcagatt aatttgaaat 180
 agctgagggg ttatttttaa aagatgacgc atgatgaccg ttgaaattgg tgctttaagt 240
 atagtataga attccttgga .ggttttgcta ttctacttat ttgtgatata taaacttgcc 300
 cattttttct tggatatctac tatgaactta actgatgcat ttgataatat aatgatttct 360
 tttgagcctg ttcattagat gtaaattaac acagtatcca tttacaacca attcttttgc 420
 atttttacaa ttga 434

<210> 54396
 <211> 199

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-E4
 <400> 54396
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 agaaagaaat acacaaacat acaaaaaaaaaa aaaaacaaat ataaaaaaaaac cttaatggcg 120
 ctccgtttta caggatccaa cattacgtcc ccttgcatat cacgtgttag ccctcatctt 180
 aatcccctta aatcaaatac 199

<210> 54397
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-F1
 <400> 54397
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 aagcggaaga cgcggaacaa gatcatcgta tggacgttg ccctggctgc agtggcgatt 120
 ctggtgggag gcacgattgc gctggtgctc acggcgggga cgtggaaggc caagataaag 180
 aagtcgcagg agaagatctg taacaagggg tgggagtgtt cggggagcaa gtactgctgc 240
 aacgacacca tcaccgactt cttcaaggtg taccagttcg agaacctctt cgccaagcgc 300
 aacacccccg tcgcgcacgc cgtcgggttc tgggactacc aggccttca 349

<210> 54398
 <211> 153
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-F10
 <400> 54398
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 atatataaca aaaaaaaaaa ataataaaat agaaaagttt aaatattaat ttactactcc 120
 cccccctct atttttttcc aacacttctt aca 153

<210> 54399
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-F6

 <400> 54399

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 agctgatctt agcctggggc caaagctctt ccacctccag gtcgcactgg agcatttcaa 120
 aggctggaag atcccagaaa acctaaccaa cgtccacgcc tacaccaagg ctcttttcag 180
 ccgtgaatct tttgtcaaga ctaagccatc cgaggagcac gtgattgcgg gatgggcgcc 240
 caaggtgaac gcgtaagcac atcgtgattt ggtgctaact ggtggactcc atccatttat 300
 ctgatcagtc gttgtcagtg gtgtgtgtag gtgtcacatc tgtagcctag acacatgatt 360
 cagttggaat aaatgcagtg tcgtgtaaaa aaaaaaata aactaa 406

<210> 54400
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-G4

 <400> 54400

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 cgagaaggcc atacctctcg tctatttccg aggaccacca gaactgccgc ttgatctgta 180
 gctcgaaggg tttcaaggac ggtggctggt gtgacgaaag cgtcgagcac aaagtgtgct 240
 gctgctccca ttagaaatat aatatcgtat gttatgttga tgcatatata tgcacatcc 300
 atctacctgt gtggtgcaaa aattctgaat aaaatctacc tgtgtggtgc aaaa 354

<210> 54401
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-G5

 <400> 54401

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ggacgctgac tcgtgcctcg ccgcgcttgt cgaggcactg gagaaggcta aggaggacgc 120
gctggcgaag aaggccaagg ggaaggagga ggccggctcc gcctatgagc tcgactacga 180
ggagtagctg gtggctgctg ttgacttctt gttagttgct agtgctacat atgtatggag 240
cccctgatct aggtgctggt ctcatctcat gagcgaagaa taatgctaac tagactacga 300
tttgattatt actttatggt gtcagatcaa aaactaaaag aacct 345

<210> 54402
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H12

<400> 54402

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agggctgatg gcagtttctt tcgcaaacct caactccgag gcagggctta aaaagcttga 180
tgagtacctt gtcactcgca tctacattac tggctaccaa gcttgcaagg atgacttggc 240
tgtctacact tctgtttacg ctgctccctc gtccaagtat atcaacgtag ctaggtgggt 300
taaccacatt gatgccctcg tgaggctgat cggaattact gcagagggcc aagggtgtgaa 360
cgttggatcc tcagcagttt cttcagcccc aacttcagat gttgctgaag cacatgcccc 420
agttgctgac gaagacgacg acgatgatgt tgaccttttt ggtgaggata ccgaagatg 479

<210> 54403
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A1

<400> 54403

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cgctccgat gccgccgact cctccgctcc tcgagccgcg cgactacctc ggccgccggc 180

ccacctagtc gtgctgctcg tcgtgctgct cctactgccg ctagggcaca ttgccccacc 240
 tcgcgctgcg gatcgtgctt ccggtgtccg acgactcccc cggtcgcggc gcggacactg 300
 aacacgcccc cgcccacgtc tactc 325

<210> 54404
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-A6
 <400> 54404

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 aataaaaaaaaa aaaaaaaaaa aaaacaaagg aacgcataat ttcaaaaact aacataacaa 120
 acattcaaaa aaaatatata atctacgtgc ctctctttac ttcccttccct tacttactcc 180
 ttcttccaca ttaatactcc tactatcctt ccacttactt tctttccact gcctctcctt 240
 ttaccccggt tttccctgta acaaccttgc ctttaccac ctaactttcc ttctt 295

<210> 54405
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-A8
 <400> 54405

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 gaaaaaaaaa aaaaaaaaaa agagaagaat tatataaaaa aaaaaataaa aaaaaaaaaat 120
 aaaaaaata aataaataaa aaaatatcaa ttaataatat atccaaaaaa ctaaaatctc 180
 atacattgct cacatttttt ataactgtaa ttcttataaa aa 222

<210> 54406
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-B1
 <400> 54406

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agagtatgaa gaggttaaaa agtgaggctg cgggaagttg aggcgaaatt gtagtgacct 240
gtttagaagt agctactctt ttttgggaac acagatagtc agatgagatg taaaacctgt 300
gttgtaataa tcgttggatt tgccccact tagtttcctt ctgcggcgat ggaggttaaca 360
cgacattgtc attgcttttg ttgcaaaa 388

<210> 54409
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D11

<400> 54409

agggttggtt tttttaacgc gtgggggttac aaacccaag cggccctttt agaggaccca 60
agcttaaaaa cccctccctt caaacctta atttttttat tgtgacacct aacttaaatt 120
cacacgccg actttttaca acgtccgtga ctaaaaaac ccatttttta accaacttat 180
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<210> 54410
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D4

<400> 54410

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aggatgccaa gttcaagctc tgcaagggtga ggggctggca gtttggccag aagggcatcc 120
cctacctgaa cacctacgac tgccgcacca tccgctaccc cgaccgctc atcaaggcca 180
acgacaccat caagatcgat ctggagacca acaagatcat ggacttcac aagtttgacg 240
tcggcaacgt ggtcatggtg accggccgga ggaacaccgg gcgtgtaggt gtgatcaaga 300
acagggagaa gcacaagggc ggcttcgata ccattcacgt cgaggactcc atgggccacc 360
aagttcgac c 371

<210> 54411
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D5

<400> 54411

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cacgtacgta gtttttgagc tcggaaaagc catctcatcg tttgtgatcc cagacctgt 120
tgcttaacat gtggcatctc cgctgcaacc gagtacctgg actgaaatgt tcatgttatc 180
gtcaactaac aactgacctg gtttacttca ggccctactg tataattaca ggaattgggt 240
gggccatctt tgctgatttc cacagcattc ttatggtaaa attattactg ggagttt 297

<210> 54412
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F11

<400> 54412

attggtggtg ccctctttta gatttcttat gagttatagt tcaataataa agtttggtgt 60
gggatgtttg tggcttccca gaaataagaa agtacatttc tagattctta aaa 113

<210> 54413
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F8

<400> 54413

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ctacttgga ctctcagtct gaagttctgg aggagcgaca gatccagctt cctgcttata 120
ttggctcagg gatttggttg gcttccaaat gggttggttg tctaaaata gtcagaatca 180
catgacatct gtgctataga tatggacctc agtggttttc tccacattag gaaagctgga 240
agagccgttt tgaactcaat ttttttgcta acaagtgttg tatggtgaaa cagagttttg 300
tgtgtatgta ccaacaacta aaatgtaaac acgacattat catagttgag tccaggaata 360

ataatctcta tatctaattgg caaaa

385

<210> 54414
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F9

<400> 54414

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tgcatccaa accaggctct ttgagcaatg tgaggaactg ttgttacaga gtacaataca 120
tccaaagcac actatccttg aattacagag ctcaaaccac ctgaacttgt tattgtggac 180
ttttttcatc tcatcgctgg ttctccctcc tgcgtgcgta gcgggtcctg tcattgtacc 240
taggcctgtc tgcagccctc tgtggcacgg gctcgaccct tctctgcctc tcaagaggcc 300
tctgaacaat ctacccgttg acaagcagtt cagctccgta gtccttgtac tcaaggtcaa 360
catacgaatc cggtagcaca aagagaacac caaggagccc ctcgagcttg ttagatgtct 420
cctcatcgat etc 433

<210> 54415
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G6

<400> 54415

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cacgacgaga tagcagagta ctatctacaa ggggggggatg agatcacaca accgacaccg 120
cgacatggta tagaaacct tctgcacca aggaaaccag atccgaccaa aatgcgacga 180
cgacacgaca gcaccgaaca aatctcacta ctactagtac tactggatag cactccaata 240
aatagatcta ggcggcagct gcggcagcgg gggaagtact gctaggtagc ctgcaagcac 300
gaagcccat cggc 314

<210> 54416
<211> 169

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-H5
 <400> 54416
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 aaaaaacaaa ccattaaact actatgttta gttgttcaat ttaactttat gacaaacccc 120
 ccaatcaata cttacacatt cctttaaaac aatcccttcc tacaatata 169

<210> 54417
 <211> 74
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-H6
 <400> 54417
 ttctaaagga cccaagctta cttacccatc cttgcaacgt aatagctctt atatagggtc 60
 acctaaatta aatt 74

<210> 54418
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-H9
 <400> 54418
 aaaaaaaaa aaaaaaaaa aaaaaataaa ttgggcccgc ctttttaaag atccaaggct 60
 aggggtccct tccttccaac tcattactcc tcttttattt caaccaaatt caattcaatt 120
 gccgcggtt tacaaccttc ttacctggaa aacctctgcc tttcccaaatt taattcgctt 180
 tcaacaaaat ccccttttcg ccacttgctt tattacaaa aaggccccac ccacccgctt 240
 ttccaaccat tccccaccc taattgccaa ttggaacccc ctttttaccg cccatttaac 300
 cccgcgggtt ttgttggtta cccccagggt aaccgttcaa ttgcaagcc cttacggcc 360
 cgttcttt 368

<210> 54419
 <211> 400

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-A8

 <400> 54419

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 tctcgagtcg gtacttccgc caaagcggtc ggttaagctg acagacatgg agatagatga 120
 atgcgaggag acaaccatgc atgatgtgaa caacatcgag gaagagatgc gcaggaagca 180
 ggctcatgct gctcaggagg cgtacgagga ggacgacgag atgcctggcg gagcccaaag 240
 agtgcagtgc gctcaacagt aagcagacta ccaaaatggg attcaaggca ctttggttgc 300
 tcttcaatta tgcgagtgcg cctgtggact gtatggttct atggttttgc tgcgctgag 360
 ctacaaagta ggaagctgat gcgcccctgg ctctgcaagc 400

<210> 54420
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-B9

 <400> 54420

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 ccccggtgtc gctgttccag aagcccatcg tgaaggtgaa gctcgacgac ctgatggccg 180
 ccacgcagga cttcagcagc agccacatcg tggtcgccgg gagctcgcg gcggggacgg 240
 cctaccgcgc cgtgctacgg gacgggtccg cgctgacggc caagcgctg cactcgtgcc 300
 cgctctcgga gaaggcggtc agggcgagga tgtgtcggat cgggcagctg cggcatccca 360
 acatcgtgcc gctgctgggc ttctgcgtcg tggaggacga gaggtgctg gtgtataagc 420
 atatggag 428

<210> 54421
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-C11

<400> 54421

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tttcaaaaaa aaaaaaaaaa aaaaaagaaa gatataaaaa aaaaaaaaaa caaaacaaaa 120

caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggcccc 180

ccttttataaa aaaccaaact tacctacccc tacattcaaa cttaaaacct tttaaaaagt 240

gcacccaaaa tcaaatcaac tgccttcttt ttaaaaacct cctaactgga aaaacctctc 300

cttaccctaaa ctaaatecct ttaaataaaa tcccctt 337

<210> 54422

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C12

<400> 54422

tccggaattc ccgggtcgac ccgcgcgtcc ggcttctgtg ctgctgaaga cgctgttgct 60

acctctccca aatctgtttt ccactgcttt ggcgtgtaga acttgagag tgctcctcct 120

cctatgaaga aggactacaa gctggctaatt cttctctgct gggaggagga agcggatgcc 180

atggaggaga aggcgggagt gcttgatgag taagacgggc ttctggggtc gatttgcttc 240

tgagttgttt attttatata gtcgcaattt cgtgggtgtc gtttgggtat tct 293

<210> 54423

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C2

<400> 54423

aattcccggc tggacgcacg catgcggccg gatgcactgt aaagaggctt atactttact 60

atgcctgtcc aggttgctct agctttggac gcatgtaaac agcggggggt cttgctggcg 120

ctgcctatga tgatggaaat tggcttagag agaggattca gaactgcatt gagtgcattt 180

gtacttatgc agctccagtt agcatctgtg ttcttcacat tctctcttgg gacccaaact 240

cactactacg gaaccacact gctacatgta ggagctgaat at 282

<210> 54424
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-C4

 <400> 54424

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 tgctctcctt gctttcacac ttgggggtgag gcagatgatt tgctgctgca acaagatgga 120
 tgctactaca cccaagtatt caaaggcccg ttatgatgag attgtgaagg aagtctcttc 180
 ctacctgaag aaggttggat acaaccctga taagatccac ttcgttccaa tctctggttt 240
 tgaaggtgac aacatgattg agaggtccac caaccttgac tgggtacaagg gccaaccct 300
 acttgaggct ctggacttga tcaatgagcc aaagaggcct tcagacaagc ccctgcgtct 360
 ccccttcag gatgtgtaca agat 384

<210> 54425
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-C9

 <400> 54425

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 aaatcccttc tgtcggatca catatcccta gagacttgag taaggctcgc actgatatcc 120
 atatattctg tacttaccac cacatcgac tattgttttg cttgctacta gcgcacatgt 180
 aaaaaatatt aaataaaca agaagcttgc ctgaactatt tacatacact gtaaatacag 240
 tttttagtgg tgtattttta ttacttacac aaaccagtat tcattctcaa agccatgaac 300
 agctattctt atcccttcca ttctattgaa aaatgaaggc tttcgtaggg atgaagaaac 360
 gcttcaacct tcaatatacc tgaacaacct gccagacaag attccagagg gtactcgtgt 420
 gctaagttgt gacccaatgc tggccactgg tgggacaat 459

<210> 54426

<211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-D1

 <400> 54426

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 cctcgaggcc tttgccggcg aagagcgccc aggcggccac caggatgaag tttgttgctg 120
 cctacctgct tgctgtcctc gctgggaact ccagcccctc tgccgaggac ttgacagcca 180
 ttctggagtc agttggctgt gaagttgaca atgaaaagat ggaactcctt ctgtcccaac 240
 tgagcggtaa ggacattacc gagctcattg ctgctggcag ggagaagttt gcttcagtcc 300
 catgtggcgg tggcgggtgtg gctgttggtg cagctgcccc tgctgctggc ggcgctcctg 360
 cagctgaggc gaagaaagaa gagaaggtgg aggagaagga agaaagtgat gacgacat 418

 <210> 54427
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-D5

 <400> 54427

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 ctttcccgac aaacaactcc cagtcgcca cctgnatgaa gtttctgct ccctacctcc 120
 ttgctctcct ctctggaaac tccagcccct cttcccatga cttgacagcc attctcaagt 180
 cagttcgctg tcaagttcac aattaaaaca tgcaactcct tctgtcccaa cttatcagta 240
 atcacattac ctaactcatt gcttctggca atgaaaactt tgcttcagtc ccat 294

 <210> 54428
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-D9

 <400> 54428

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tccagatcgt ccggcgngga tgggggctgc ggtctttcca gcgctgctgc tggccgtagc 120
ggcgggtgctt ctccctaccgg tggcagagge cgtgtggctc gagctcccgc cgtcggggac 180
caagtgcgtc tccgaggaga tccagcccaa cgtcgtagtg ctgcgcgact acgctatcat 240
gtacgagtcc caccacagct cgcacccac cgtcgcgcgc aaggttacat caccctatgg 300
caatactgtg catcataatg aaaatgctac aacggggccag tttgcattca ccacttcaga 360
agctggaaac taccttgcac gtttctggat agacagcgtg gagaaaggat caggaacatc 420
tctaaatctt gattggaaga tagggattgc tgcaaaagac tgggatacta ttggta 476

<210> 54429
<211> 384
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-E1
<400> 54429

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gggtggggag ttcggtcttt ggggctcggt aanctggca cattcatttg tgagttcagc 120
gggattatcc ttactcacca gcagtcagag gttgtggcag caaacggcga ttgcttggtg 180
cgtccaagta gggttccctc aagggtggtg gattgggggtg atatatctga tgtctaccct 240
gattatgtgg cgccagacca tccttctatt cctgagttaa aatttgcaat tgatgtgtca 300
agggaagga atgtggcatg ctatttcagc cacagttgca gtccaaacgt gtttgtccaa 360
gttgtgcctg ttgatcatta caat 384

<210> 54430
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-E9
<400> 54430

cccggtcga ccgcaggcgt ccgatccctt gccttcattg cccttcagg cactgtttgg 60
aagattgcaa cagctagcta gtggcgctgt tgacgttcta ctgggaaaag ataagatata 120

aaaggtttta ctctcaaggc taactgaaac agttatcatg tggctctcca atgagcaaga 180
gttctgggat atctttgacg accgatctgt ccaactccag ccttcggggc tgcagcagct 240
tattcttgat atgcacttca ttgtcgagat tgctgtgtgt ggaaggggtc catatagacc 300
agttcagcag cttgtgtcca caatcataac cagagcaggt gcagctttct cagcaagggg 360
tgttgatcca caaaagtgtc 380

<210> 54431
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-G3

<400> 54431
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atctgcaaag caacatctgg aacgcngggc tttgatgagg tcgatgaatt catttatcaa 120
ctatgtgatg tcacacgata tggcgccctta acaaggcctg atttggaatc agacttggcg 180
tctgttcacg aaactgtatn tgcaataaag aatgaagctg tcgaagtttg caacaataga 240
ccattcgaag aatcctcaac tctgcagtgt tttcaaagga tgttgatggg gtctcatgga 300
agtctatgtc attatcag 318

<210> 54432
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G6

<400> 54432
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acacaatccg ccgtgcgcac gcggtgcgtt ccattaccgc cgtgcagatg gagtgggtgc 120
tctgggtccc agacatcgag cccgagatcg tgccactctg cagagaattg gggattggaa 180
ttgtggctta cagtccaatt ggccgtggat tttttggtgg aagaggagtg atacagcaag 240
tttcttctga atctagtctg caaaggcatc caagatttac aacagaaagc ttggagaaga 300

<210> 54435
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A1

 <400> 54435

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 tgggtgtttcc gagggccgtc cagataggca gcctcgaatt tgcgcggcct tggatatcta 180
 tcttctttct tgctcagcag gagcgccatc ctggccctct ccttcttggg tccgtgtcca 240
 tgtttgattc ttatcttacc ggagctgtgg ctaactgaaa gagctgtctt tg 292

<210> 54436
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-A3

 <400> 54436

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 gcagtccatc tattaatttg cggcagggtta tctcagagct tgctgctcct acaaaggatg 120
 cagaattttt aatttttagaa ngcatgggtgc gatcacttgc ataccaacct caatgcccgt 180
 tttaagtgtg atgctctaaa gcttgctatg gtcaagaatc agcgatttgc agaaaaactc 240
 ttcaatggga gtctata 257

<210> 54437
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B1

 <400> 54437

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 aataatgggg ggtctctcca ccaagctttt cgtggtcctc ctctgctcg tttgttacac 120

cgggacgcaa ggcgggccgg tgactatggt gtcggcgagg aagtgcgagt ctcagagctt 180
 ccgcttcaag ggaccttgct cgagggacgc caactgcgca aacgtctgcc tgaccgaatg 240
 ttccaccggc ggcgtgtgca agggcctacg ccaccgctgc ttctgcacca aggact 296

<210> 54438
 <211> 238
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-B2

<400> 54438

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 cgtctctctc ttctctctga ctgtctctct cntagccgcg tccacctcgc aacaacaagc 120
 aagcgccacc aaatggcgcc tctaagagac cgcggaactt cttccccggc ggggtccaac 180
 aacctggtgg ggtcgttccg cgagaagctt atccactttg tccccacct ggcccggc 238

<210> 54439
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-B5

<400> 54439

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 ggcggcagca gtgttgatg ctgcccggg ggtggttgaa gcggaggagg atctggtggt 120
 ggcggctgca gcggcagtg gactagcggc cgttgccccg tggacgcgct gaagctgggc 180
 gtgtgcgcca acttgctgaa cgggctgac aacacgaccc tggggacgcc gcccatgacg 240
 ccgtgctgca cgctgatcca ggggctggcg gacctggagg cggcggtgtg cctctgcacc 300
 gtcctcaggc ccaacgtcct gggcattaac ctcaacctgc ccatcaacct cagcctcctc 360
 gtcaactact gcggcaggcg cgtcccatct ggctttcaga gcttctgata tatatggtgg 420
 tagattatat at 432

<210> 54440
 <211> 314

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B6

 <400> 54440

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 cttcgccggc gaagagcact tcaacggggg cgcccacccc gtggcttggt gctttgtggc 120
 ccgccaaacc catcacccca accctcactc gagctacttg gttaacttcg cgtctttcga 180
 tctgggctga atgcgtcttt cgatctggac ctaactgacc attaccgct cttttctggg 240
 tatattctca ccttacctgg agaaaaccag aggggatttc aagaaggcca ggggcaacaa 300
 ccaaaccaaa cttc 314

<210> 54441
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B7

 <400> 54441

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 atgcagaccg ctgactatct tctccgccag gaagtcccaa tctcatagct tccacttcaa 180
 gggaccttac tcgatggacg ccaactgccc aaacgtctgc ctgaccgaat gtttcaccgt 240
 ctgtatatgc aaagccctac gccaccgcta cttctgcacc atggactgct aatactgcct 300
 aatctctcca tccctcagct cgtgtcctgc gtgtgcatag ccgcaccata tcagtaaaac 360
 atgcatgcat gcattaccta 380

<210> 54442
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-C11

 <400> 54442

54443 54444 54445

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ctggtgcccc gctccctca ccaagctnnc tggaaggggg ttccgggaac ggaggggttc 120
ccctcaaaac gcaatttccg tcttttttaa ggccccggc ccgaaagtga caaaggggtt 180
tcaccccggtg ggcacggg 198

<210> 54443
<211> 162
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C9

<400> 54443

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tccaanaaaa cgtaggtgat cttaaataaa tgctgcattt cctcttaaaa catctgtagg 120
tcttgagggt tatctacgtg tcatgggatc tccaacagat tt 162

<210> 54444
<211> 77
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-D10

<400> 54444

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aaaaaatttt tttttca 77

<210> 54445
<211> 131
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-E10

<400> 54445

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accaattttt ggaaccacta accggggggc cgaactttta ccaattcacc attttccaa 120

gaggatcata c

131

<210> 54446
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E12

<400> 54446

atccccgggg cggccgacgc gtccggaggg cccaatgtt agccccaagg ttttttcgag 60

aa 62

<210> 54447
<211> 82
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-F8

<400> 54447

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tttgatgtct ccctcctcac ca 82

<210> 54448
<211> 82
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-F9

<400> 54448

cggaattccc ggctcgaccg cacgcgtccg aaaggnnnnn nnttaccaa ctaactaatt 60

ctttagaaaa aaaacaacaa aa 82

<210> 54449
<211> 74
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-G12

<400> 54449
 cctcggccgg gacggaattc ccggggcgac ggattcggnn gaaaaaaaaa aacaaaaaaaa 60
 aaaaaacttt tttt 74

<210> 54450
 <211> 67
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G2

<400> 54450
 cacctaaaat caattctctt gccgtcgata tacaaccatt tgagtgaggg atctttttacg 60
 tgtcccg 67

<210> 54451
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G3

<400> 54451
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 caaccatcat catgaattca tgatactgga tgtacatcat gatactgcgg agacagacag 120
 cgagagatga ggctagctag atgctgtttc accaaaatat tatgtaacac ccaaattctcc 180
 cattttaaga aataaataag attttcgaaa ggcaaattggg 220

<210> 54452
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-G5

<400> 54452
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 tactcttccg gagccctaaa antcgggggg gggcgccctt aacaggggcc aaaagaaatt 120

taagggggcc atttgcaaaa ccacctcaaa gtcttgccag ggggcttcgg gatttcttca 180
cccctaccac tttagttgaa tcacaccccc aaactacttc aatggagtct tcacagggcc 240
tacttagttt cca 253

<210> 54453
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G6

<400> 54453

tccggaattc ccgggtcgac cgacgcgtcc gatcagggag tacaagtcac atcttaataa 60
ccttaagggg gcgctgaaaa gggttactgg gggtaatgca caacaggggg cgagggaaga 120
tttggttgag tcacgaatgg cacatacatt gggggtttct gctgatcaaa ggtcaagatt 180
gctcatggca accgagagac agaaccaaaac aactgatagg ctacagagata gccatagaac 240
tatgctggag actgaagaac ttggtgtctc tctcctgcat gacctgagtc aacagcgcca 300
gtctctcttg catgctcatg atgtattgga cgaggtggat aacaacgtcg gcaagagcag 360
gaggaccatt ggaggcatga tgaggagaat ggatagaaac aagtggatca tcggtctcat 420
catagcagtt cttgtcttgg ctatcctcgt gattctgt 458

<210> 54454
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-H7

<400> 54454

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tatcatctcg actgctgaaa aaacacaaca gggcggtttg gaggggaggg tggaggacct 120
tcttctgnnc cccaacaagt tctcggagcg ccagcccatc agcacagcgg cgcagggcac 180
ggacgacaag gactacaagg agcccccgcc ggcgcgcgtc ttatagcctc ccgagcccaa 240
gccctggtcc ttctaccgcg ccggcatcgc cgagttcgtc gccaccttct tcttattata 300
catctccatc ctcaccgnca tgggcgtctc caagtccacc tccaagtgcg ccaccgtcgg 360

catccagggc atcgcttggc ccttcngcgg catgac

397

<210> 54455
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-H8

<400> 54455

tcccggtcgc accgacgcta tttttcaatg tcacnaacca nagcacgaag attttctata 60
tgcatacaca aaagctaact gagctgcaat atatgtggag ctttatcaaa tcttcttanc 120
aggatcccat catcttctact taccaaatat tatacccatg atcaaaaacca tggccgaatc 180
taacactaat gctgacaaaa tagagactct tatcggtaat aatcataacc tgcctgagtt 240
acctgatcat gaatttatct gatacttctc ttgcttgtct ccaaccaaac atccttcagc 300
aaaccaaggt ggtgcttata cccactgcgt tgatttccaa cctctgcatt aa 352

<210> 54456
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-A11

<400> 54456

cggaattccc ggggtggaccc acgcgtccgc ccacgcgtcc gccacgcgt ccgcttcgta 60
gcgcgggcgc tccatcttcc gctggctgcc ttagtcgcgc tcggcacgcg ggtgacggcg 120
gcagtggcgg cactcaggat cgggctctca gcgacggcat cagcggtttc cctcccgcgt 180
tctctccagt cgcctcgcgc cctcgcctcc ggtcctacgc acaccatccg gtgaccctcc 240
atataggggtg tgagactacc aaaactcgaa aatgaacaag ggaaagattt ttaagctagc 300
caaaggattc agaggaaggg cgaaaaattg cataaggata gcaagagaga ggggtggagaa 360
tgcgcttgca tattcatatt aggatcgacg caacaagaag agagacatgc ggtctctttg 420
gattgagcgc atcaatgctg gtacac 446

<210> 54457

<211> 141
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A4

 <400> 54457

 cggattggaa ttccgacgta gacccacgcg tccggcaaag acgagccgac gtatctgatg 60
 atcgtagttc tcttcatcat cctgaagggc gcagcgcgct tgatacctgt tgacatgcat 120
 catctgacgg ccttactggc c 141

<210> 54458
 <211> 63
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A5

 <400> 54458

 cttcatatct atcaacctta tttatctatc taatcctaac tcttatctat actattcaat 60
 cac 63

<210> 54459
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A7

 <400> 54459

 cggtcgggaa ttccggccca cgcgtacggc gcggcgtgtg gggggctggt ctactaccac 60
 tgcgcggtac ggcgagccag cgcggtgtgc cttgcagcag acgtgctcct cgtcctcctc 120
 tgctcgctct ccatacctgg cctcctcttc cgccacctcc acatctcggg gcctgtggat 180
 cctcttgaat ggcagatctc tcaggagatg gcaaatagca tagttgcac tttagccaat 240
 acagtaggag ctgctgagtc tgtattaagg gtggctgcaa ctggacatga caagaagctg 300
 tttttcaagg tggtttctac attgtatttt ctagcagctt tgggaagggt ggtgtcaagc 360
 gctgcccgtg cgtatgctgc cctatgcac ttctgcctct acatgtttg 409

<210> 54460

<211> 154
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B6

 <400> 54460

 attccccgtgt gtcgacccac tcgtccgttt tttttttttt tttttttctc ttatattatt 60
 ctttattact tttttaatta ttctatcgtc tagttatatc caaattaatt actcaaacta 120
 attaaccctt tcctttcttaa tcatttttctt cttt 154

<210> 54461
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B7

 <400> 54461

 tccggaattc ccgggtcgac cgacgcgtcc ggttttcgaa atattctttt tagagggggg 60
 aggcattggtg cagtaaaatg aaatagagag agattggagc aattctttgt tatcttagca 120
 acaccttttc ttcttcgag agcactatgt acaagggtgac attataaaaag attaagatag 180
 tgaaggcctt attttcgga ggctaagtga cattcatctt gcaagtgttg caactttttt 240
 gaagtttggt taagtaaaaa aagacatgaa gtttgtttcg ac 282

<210> 54462
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B9

 <400> 54462

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 ttcgtcaatc catcgagct ggacatgcgt ttagcgtag atttgatcgt tgagatgacc 120
 ggcggcggcg tggactacag cttcgagtgc atctgcgtgc cgtcggtgat gaccgacgcc 180
 ttcagatgca ccaagatggg gaagggcaag acgatcgtgc tgggtgctgga gatggacagc 240
 gacgaggtgt gcctgccgtc gctggagctg ctgctcgga ggtgcgtcat ggggtcgtc 300

ttctgcggtc tgaatcccaa gaccacata cccgtcctcg ccaagaaatg catggtcaaa 360
gagctgcagc tggactcgct ggtcacgcat gagcttggac tgcattgacat caacatggcc 420
ttcgacctgc ttctgcaatg gaaaagtctg cac 453

<210> 54463
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C3

<400> 54463

cacggcttca tcatcactcc actagccagt cagctactgg cctacagcta gccgggtact 60
gtcctctcat cccatcccat ctcattctccg acaagcgaag cagagcactg gcatgagcat 120
ggaccgcatg gcgcggcggtt ccgtgtcctt gtcctcctcg ctggctctcc tggccgccgc 180
ggcgtctgcg gactcgtggc tgtacgagaa ggtcacgacg gaaggcaacy tgcgcgcgga 240
ctacaacgcy caagggcagc aagtgcgctc tctgattctg ac 282

<210> 54464
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C8

<400> 54464

ccggaattcc cgggtcgacc gacgcgtccg ctcagaactc tcgtgctcac ctcattccgtt 60
cgacatatcc acacgaatcc tctgattcat gtcagggtgt tggcattgat cagacgcctg 120
ccatggcgga tcagttcgtg gattcggcga acaatgtgat cattgaggag gtgaacaagg 180
gcctgaaccc aggaatgggtg gttctgcttg tggttgcaag cttcctgctg ctcttctttg 240
tggggaacta tgcgatgtat gtgtatg 267

<210> 54465
<211> 168
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-059-Q1-K1-E1

<400> 54465

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ttggcttctc ctccccctcc ggttcgggtg ggggtgctg aggttctccg gggttcgggt 120
tcgtgggtga gcggatcgag atggcggcgt ccgatgttga gtaccgct 168

<210> 54466

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-059-Q1-K1-E7

<400> 54466

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accagagcac tagagcagag caacaacgcg acaagagcag agtgagatcg tcgtcagcga 120
gccagcaga tacgagagag aggatggcgg acatcgcggt gctgggtggcg gagcagttcg 180
agaagacggc aaggcgaggc gccccggcg gggacagcgg cagcagcagc gggagcggcg 240
gcgagacaag gaacttcggg gccgtggcca aggtgtggag ctggtgggtg gagtccgcct 300
tcgncgccgc gtccggggtc agattcaccg tcgcggtgca gctgggagcc ca 352

<210> 54467

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F1

<400> 54467

accggtccgg attccccgggt cgacgcacgc gtccgcccac gcgtccggca ggagcaggag 60
gggttcgtca tcgcgtggtg gccgcgccg 89

<210> 54468

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F2

<400> 54468

cgggtccggaa ttcccgggct gaaactggcg tggatatgct gtacgtcgtg tcctgcttgc 60

tgtcgggtttc tgaagctttt agctggcagg gacaggctgc tgttggcttt gctgattgcc 120

caaccctctc ctgtaatatt aatcctacca gagaaactta aacttgactc aaccgatatg 180

ctattaaata aataaagcaa gcaagttagg ataaaaaaaa aaagcaaat aataatgagg 240

caccaataag aaagactaaa gaaaaccaat tcat 274

<210> 54469

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F5

<400> 54469

ctgctcgtac cgggtccggaa ttccggcgga cgcgtacggg tgacgtgccc gctgtgccgc 60

tcccacctgc tgccgcgccg gcgcgccggc ctgcttgaga tgggacggct tggcgacggc 120

tagtatagtc gcccgtccgt ccgtacctgg ttgtttcctt gccacgtgac gtgcgtgccc 180

gtgcccgtgt gctgggcttt caggcgccgc gcaactggtgc cggatggggg cggaccaacc 240

gtgaactgat cgcgattagg acgatggact aaccaccaac ctgatgtcat taatgaatgc 300

gcgcatagta aatgaacctg catagatgat gcttaactac t 341

<210> 54470

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F8

<400> 54470

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agcgtgcag atatgtccaa tattctaacg gggcaggaga tcaggaggcc atacaggtgc 120

taaatggaag ccagttggga ggtcatagca taaggctctc atggagccgt atccctgcaa 180

acaagcagcc tcagcaagag cagagccaat ggagcggtagg tggatattat gggatatcccc 240

aaggatacta tccatatggc tatgctcgag gccctaaga tcctgacatg tacgcctaca 300

cagcata

307

<210> 54471
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G1

<400> 54471

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tttcgacaaa ttgattatgc tgtagccctt cgggtgaggt ctagacattt cgggtgtcttg 120
aagcacattc ttttttctga tgttggtaat gatttctgta ggctagtagt agccaatatt 180
atgtttggat tatatcccc tctaaaaaaaa ataataa 218

<210> 54472
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G11

<400> 54472

attccctggt cgaccactc ttcctaaaaa aaaaaaaaaa aaaaaaaaaa aaataaataa 60
aaaaaaaaataa aaaaaaaacc aaaaagacac actcaaacat tcaaaataat tatctcatat 120
ataatatcac c 131

<210> 54473
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G8

<400> 54473

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gagcatgaag agcagcgtga ggcgaccaga gaggagcgag tctatacttg gagggatcag 120
cttgaatcac tgtatagata gaacggctac gactaaccaa tctctgaaaa ctgaatactg 180
aacatcggat caaatctaata gtgcataatc cactacagcg aactgactg taatgtctac 240

attgactgat catctcatag cggccttgaa tctgaccaga t

281

<210> 54474
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H4

<400> 54474

gcagcttgag cgtgccgctg ccgccagcag cagcctgtac gagccagctc tgatgcagca 60

gcagcagcag ctgctggcag cccaggggtct caaccccatg gccatgatga tggcgcagaa 120

catgccggcc atgggtggac tctaccagta ccagctgccc agctaccgca ccaaccctg 180

tggcgtctcc gctgccattc cggcctacta ctgattcatg atatttggga aatctctctt 240

atccatctct ctctatctat atatgtaata atgcagtaag acgacacaca ttatcat 297

<210> 54475
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H5

<400> 54475

acctgtccgg aattccctgg tcgaccacg cgtacgattg attgagattt atctcaaaaa 60

aaacaattca tatacaaata aataaaaaaa aacaaaagg ggggtttctt tctaacagga 120

cctagctttc atacacaaac aggccgcccg ttctatagga ttcaagcgtc acgtaacata 180

ccattcaacg tcctaacttt tataaagtgt aacctaata aaatccact 229

<210> 54476
<211> 217
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-059-Q1-K1-H7

<400> 54476

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gccggccggc cggtttatac ccaggaaagc cggaagaaca cttctgcctc ttctccata 120

[illegible]

<400> 54480

<210>	54481
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<212>	DNA
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<400> 54481

<210>	54482
<211>	345
<212>	DNA
<213>	Zea mays

<400> 54482

23297

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 tatctgaccg cgaatgagta cggccagtgt taagccagta aactggctgc atgttggtcc 240
 atagtagtta atgtaagaat gtagctgggt gagactgggt aatgcctagg gtcgtttcta 300
 gttgatacca gtattttgta atgtaatgtt ctgtcgggtac ttccc 345

<210> 54483
 <211> 147
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-A4

<400> 54483

ctcagacgcg cgatgagcac agacgacggt tacgaatttc agccactaca tgaccgcagg 60
 aacaggtacg ggttcaaaca ggggacctag acactcagaa gacgaggagc cagtacgact 120
 ggctcaactg gcgaacagaa caccctg 147

<210> 54484
 <211> 224
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-A8

<400> 54484

accacgcgac cgccacgcgt ccgggaacag ccatcacaga tgagcagaac acaacagcga 60
 cagggccgac ggccgaataa gcggggagca gcgcgacggc accaaacccg acacagaaga 120
 cgaaggaccc cagaacagca acccacagga ccagagaaga ccaaagcaca acaggcacac 180
 acggcgcaag ggcaaacagg aaccgcaaca agaaaaggag gaag 224

<210> 54485
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-B1

<400> 54485

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<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B6

 <400> 54488

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 accctgtcat ggaggatgat agcaacttga ggacctatcc tagacaacgt agccgtcaag 120
 aagctgttca cccacacaa accaaaggat aacgggggtgc tgaatggaga ctctgaagag 180
 aggtccatgg atgttcccca acacgagctc tgggagaagc tatgtccaac taaccttgac 240
 gagcaaacgt atgtcttacc tgggtggatg aacgaatcaa accgtgccga cgttacatta 300
 actctgactg agttctaagt tcccaaggga aagcgtgccca ttgagcttct gtcaggct 358

<210> 54489
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B7

 <400> 54489

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 ggcataact aggagatcct ttccaacccg gagttccttg cagagggcac tgctattgag 120
 gacctgttca agcctgacag agtgtctatc ggtggccgtg agacccccga gggcaggaaa 180
 gccgtccagg ctctcaagga tgtgtatgct cactgggttc ccgaggacag gatcctcacc 240
 accaacctgt ggtccggtga gctcttcaag ctgccgtca atgcgttctt ggcacagagg 300
 atct 304

<210> 54490
 <211> 146
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B8

 <400> 54490

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 ttcagtttat gagcatccta ggagattctc aatcttttgg tgcttttgcc agttgacttg 120

actgcgcatg tgccgctctg caccaa

146

<210> 54491

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C3

<400> 54491

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ccgatggcgc ccaaggccga gaagaagccc gcggcgaaga agccggtgga ggaggagccc 120

gcggccgaga agacgaccgc cggaagaag cccaaggcgg agaagcgggt ccccgctggc 180

aagtccgccg gcaaggaggg cggcgagggc aagcgtggca cgaagaagg caagaagagc 240

gtggagacgt acaagatcta catcttcaag gtgctgaagc aggtgcaccc ggacatcggc 300

atctgtcca aggccatgtc catcatgaac tccttcatct acgacatctt cgagaagctg 360

gccggcgagg ccgccaagct cgcgcgctac aacaagaagc ccaccatcac ctcccgggag 420

atccagacc 429

<210> 54492

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C6

<400> 54492

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tgtaaaaaaa aaaaaagaaa aagagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaa aaaaaaaaaa aaaaaaacaa 180

ataaaaaaaaa aaaaaaaaat aaacacaaac aaaaagcaaa aaaaattaaa caaaataaaa 240

aaaaaaaaaa caa 253

<210> 54493

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C7

<400> 54493

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ctatctgtgt gtttgtgttt agttccagtc gtctgtgagg aagtcagtta tgtttgagtg 180
agaggggtac ttcgctcttc ggccaacact gtacttgtca tgaggagagt tttcataccc 240
ggtgtgtagg aactctgtac tgtactctga tccttccttt ttcacgaag tgggttttat 300
tttattcaat ttttattact ttattatttt t 331

<210> 54494

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-D3

<400> 54494

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agctcctgga agctgctggc caccgactcc aagcccaagg ccgccaagcc caaggcacc 120
aaggccgcgc ccaagcccaa gctctcagcg aaggcgaagg ccaagaccgc tgctaattccc 180
aaggcgggtgt taccctaaacc caaggccaat gccaatgtca agcctgtcgc ttctgccgac 240
ttgtttccca agcc 254

<210> 54495

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-D7

<400> 54495

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tgaaccaca tccggactat ggccatctca caccagcaga gcgacgtac atggaacaga 120
agcagaagat cgacatgcag aagatggcca aagtcgcaa caagtcgcat agagaccgca 180
tccaagactt caatcaagat ctcgcaaacc taagcgagca ctacgacatc cccaaagtgt 240

gccctggcta acatagccaa actggctgtg ttacgcacaa caattgtgtg ctgggtctat 300
ccatttatgt tagcatgtta cgtatcgatt aaaacgattt gttgccacca gaagttgata 360
tttaatttca aaagcatggt ccaactt 387

<210> 54496
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-E5

<400> 54496

ccgaaccgga ccacccggcc ccgaccacg cgaccgccca cgcgaccgcc cacgcgcccg 60
cccactcaac cgcccacgcg cccgaaaa 88

<210> 54497
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-E7

<400> 54497

accacgcga ccgcgagcgc gttggaggca ccgatctaga ccatacagcg acagaggaga 60
gacgggcaga tgggaaacta ccagagggca cgaggagatac aacaacagaa aagaccgaag 120
ccgaccagaa aggggaccgc ac 142

<210> 54498
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-F1

<400> 54498

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tccccgtcgg cggtctcttt tatatatattt ggaggccgtc gccgccgctg acccaggttg 120
tcttgatggc gcccgtgtga gaagccgtga aggagacagg ctcgatccag aaggttcctg 180
ccttgaacga aaggatactg tcatccatgt ccaggaggtc ttgtgctgca cacccttggc 240

atgaactgga gataggtcct ggtgctccaa ccatattcaa ctgcatatt gagataactca 300
 ggggcatcaa ggttatatat gaacttgaca agaaaactgg actgatcaaa gtggaccggg 360
 tgctgtattc gcaagtgtga cccttacct atggatctat tcctcggact cttgggaaga 420
 cagtgat 427

<210> 54499
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G8

<400> 54499

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 gcagcacctg cgagtcctgg agcggcgcca gcggcgccgc cgccgcccgc gggatcctcc 120
 gcgccccggc cgccgaggag gactgccgca gctactgcgg ctccctcctcg tcggcgctct 180
 gcgaggacgg cgcgtcgggc cggggtgtg gcgacgagac cgccgcgccc ccgcggtgct 240
 ccccgcttac gttcgacctg aacgtgccgg accccgcccc cgacgagatg gactggcgct 300
 gcgacacgct gctgcacctg tagccgcgaa cgccaagcga gcactcagca taactgctgc 360
 tatcgtgcta tgtctgcata gaaatcgata gcctaaattt tttctctcca ccgcttcttt 420
 agtcccactc tctctctt 438

<210> 54500
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H1

<400> 54500

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 ttagacctca agctgactgt atggctggtg aggagtaacc gcctccgtga agcatggacc 180
 cctgcatatg ttggtgtttc tgaagcaatt tgtttggttc atggcttttg cgtctcggcg 240
 ctgcgccagg gatgcacggt ttgaatcagg cgctttgctg gaacttttgg gtgcacacaa 300

gttgagacaa tgcctgctgct gctgtgtgtg tgtgttttga gattaagaca atgctgctgt 360
 gttttttctt tgagattaag acaatgctgt tgcgtgtgtt cttctcgttt tctgtaattgt 420
 tcgtaaatag tctcttcgtc g 441

<210> 54501
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-H10
 <400> 54501

aacacgcgta ctcccacgcg tccctggcact cgtccggcta attgactaga catgagagtg 60
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 atcatggata tgatccaggg ctgcacgaaa cgcgcattta agatcctatg ggctacgtac 180
 atgacatcag catgcacatg taaccatgag atgtatagga taggtcagat taacctaatc 240
 tatgatcata tataactagaa tacctgaaca aatcttaaga tcttgctaaa caactgtatc 300
 ctttacataa accattacac gatgcacgat catcaca 337

<210> 54502
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-H11
 <400> 54502

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 ggcattctgt aaattatagg agaaaattct gattgtacta cgatccatag ctacattatt 120
 atcctgtata atatgcacat atgcatggga tccgtatttt atagctgatg ggttctgttg 180
 ctcaaacct tttgtatatc tcaccatcat atatatagat agtgcattatt accctatgat 240
 actattatcc acgctggaat ggattatcaa atcttcatta aatgggttatc caatcaatct 300
 tttttttaat ctattttttt aattattatc attactt 337

<210> 54503
 <211> 452

<400> 54505

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cataaacagc taaagacgga ggataagata tctagtgtgt gtgagaagtt gctcaaccgc 120
tgtgtggcac ctacatctgg tggcgaagga tgtgataaca tgacggttat tgtgggtcaa 180
ttcaagaaac cagcttttagc tgttgcact tctagcgctg agcagtctgc taccactgca 240
gaagggatgc ggcccaacga ggtcgatggc ccagattacc ccccgaagta ggcgttgagt 300
ggcacaccgt gctgtggagc tctaaccggt ggataataga caaaaaagga tagtgagggtg 360
gtgtatataa gaaaagggat tctattcgac aatctcttat agggtttgnt gcttccttct 420
ttctagtgtt cagagtcgtc gcaacctgta atacatg 457

<210> 54506

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H5

<400> 54506

cccacgcgtc cgcttcgtga agacattgac tggcaagacc atcaccttgg aggttgagag 60
ctccgacacc attgataatg tgaaggccaa gatccaggac aaggagggtta tccccccgga 120
ccagcagcgg ctgatcttcg ccggcaagca gctggaggat ggtcgcacct tggctgacta 180
caacatccag aaggagagca ccctccatct ggtgctccgc ctgagggggcg gtatgcagat 240
ctttgtgaag accttgactg gcaagaccat aaccctggag gttgagagct ctgacaccat 300
cgacaacgtg aaggctaaga tccaggacaa ggaggggatt ccccagacc agcaacgtct 360
gatctttcgc cggcagcagc tggaggatgg tcgcaccctt gcagactaca atatccagaa 420
ggagagcacc cttcacctgg tgc 443

<210> 54507

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H6

<400> 54507

ttgattagcc gtttgcttcg ctcagtagcc ttgctctcca gtgtattatc actcgcatgc 60
atgtgatgtg agccactgca cgcgtgagtg tcacatgggt cgctgctctg tctcgtctca 120
tgtgtttcaa actgtaggca gcagaggatc gagatgctg tctgctttgt tcgtgttcac 180
tgctgtcagt ctgtcaccga gttcaataat ttagctttgt ttcacgagg 229

<210> 54508
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H7

<400> 54508

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caaacggatg aactatatat tgacgttatt ataccaacag cacaccttat tttgtcccga 120
aaaaaaaaa ttactagact aatgtgtaac taactgtaag caacagagta tccaaataac 180
gtgtatcgat ttattcgtga acaatgctat caagactgaa accgaattta aaaattaaaa 240
cttagataaa taaaaagtgt gcacctttta taag 274

<210> 54509
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H9

<400> 54509

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gcgatacaaa acggtcctca aagctcacag tgctgttgtg ttaaaggctg agagcatggc 120
cgacaagggt gagtgggtaa ataagatcaa agctgttatt cagagcaaag ggggttcttt 180
caagggtcca agtactgagg gtagttcaat gaggcaaagc aattcggatg gcgctttaga 240
tactatggca cgtagacctg ctgacctga agaagaactt agatggatgt ctcaggaagt 300
cgtgggttatg tcgaagcttg tttgaatagt ctggcagcaa atgttccaaa agctattgtg 360
ctttgtcaag tggagaaagc aaaagaagac atgcttaacc agctatacag c 411

<210> 54510

<211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-B11

 <400> 54510

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 ggatcttaca ttccggggttg gcaagggtatg ctcacccgta tttgaagatt gacgttggtt 120
 ataacctgat actattatatt gataagatac atatagtctt gtcagttggc tttacctttc 180
 gaaacatttt gattgttatt gtatttaata ataacatatt ttcgtctttc ctgtaaatac 240
 ctgttaaagt taacccttat ttctgttaca gttttaaaat aaattattta tcttattata 300
 attattatatt tatttctttc ttatattatt ttttattttt tttta 344

<210> 54511
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-F10

 <400> 54511

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 ttattttacc caatccctga aactttttggc atcacatgac ttgatgtaaa ccatcttttag 120
 aagaacattt gagatactac agctttctatt ttcaaaagtt tgaatctgtc tacacacatt 180
 gtgaatatta cagtgggtgat gattttataag atgtaaatat tctaaatggg ctgggtttcac 240
 tgacacacga tcatatggcc ctgggtttggg gctatggggt cttcttttga gttgaatccc 300

<210> 54512
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-H11

 <400> 54512

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 atttaagatt actaataggg ttgcagtaca aaacggctct ggaagctcac agtgctgttg 120

tgttaaaggc tgagagcatg gccgacaagg ttgagtgggt aaataagatc aaagctgtta 180
 ttcagagcaa aggggggttct ttcaagggtc caagtactga gggtagttca atgaggcaaa 240
 gcaattcgga tggcgctttt atatactatg gcacgtaaac ctgctgatcc tgaagaaaaa 300
 cttatatgga tgtctcaaga agttcgttgt tatgtctaag ctgttttgaa tagtcttggc 360
 agcaaattgt ccaaattgctt attgtgctt 389

<210> 54513
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G6

<400> 54513

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 agctactggc cggcgtcacc atcgcacacg gcgggggttct gcccaacatc aaccctgtgc 120
 tgctcccaa gaaaaccgct gtcgctgctg ccaaggaagg caaagagaag aagtcaccca 180
 agaaggccgc cgccgccaaag tcgccccaaa aggtggccgc ctcgtaggtc cctggcaatg 240
 ctgatgcact gtctctctct gtcctctctg aactgaaacg ctcttaactg tcgttgctcg 300
 tcatggctgt tgttgtttga tgcgctttta ttgtggttgt tcgtgtgtaa ttgcttgcc 360
 ttcgccatt tggcatgcac tgtgtagggt cacactggct taggttttca atctgggaaa 420
 caccggttta gattcaagga gcgtgaac 448

<210> 54514
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E6

<400> 54514

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 gaagctcaag gctgagtaca ccaagaagat cgacgcttac aacaacaagc agtctggaga 180
 cccacggcgt tctggtgatt ccgacaagtc caagtccgag gtgaacgacg aggacgagga 240

gggtgacgag tgatgtatga cggatgaaac tctgtccaag tgtttgcagt cagggaaaaa 300
 atctcgtcgt tgtcggccta accgggtttt ctcgaaagac tttctagatg cagtagatta 360
 gtgccgtctt ctgagtagtt tccttgcaag tgctgtcccg tccctggaat gaggcaattt 420
 agtttggaat ttcttcgctt catc 444

<210> 54515
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-E7
 <400> 54515

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 tgtgttgaaa gagctgaaac gcctgtgtgt cttaatctgg aacctcttc tcccgtttta 120
 cttgtccgtg gaaacatttc atgttcagc tggttgtata ttccgaaaca gaccatgttt 180
 tagttcactc gggtcttcgt tgacttaagt tatttatcaa atatttaagt atcgtagta 240
 agtttgaaac ctgggggggaa gaactatgct ggctttgttg tactgccaat ttcaatttag 300
 gaaggatgaa attgaagtta aaaaacatct aaaaagctca tctacaag 348

<210> 54516
 <211> 165
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-E8
 <400> 54516

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 ggtgcgcaag tacatgtccg gcgcggggct ccgcgccga tgccggcccg gggccgtggg 120
 cgaggtgtgc atgccgtatc tgggtggaggg tgtgatgcgc gccgt 165

<210> 54517
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-E9

<400> 54517

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tggggagctc cggaacgga agtccgccc cccgcgcgtt cgacctcaac ctcccggccg 120

tgccggagtt cgccttccgg tgcggcgcca agcccggcaa gatgtgggac gaggaccagg 180

aggtgcagag cccctcgcc ttcaagaagc cccgcctcct catgaccgag tgagcctgag 240

cctgagccga ggcgcggatc tgatgttgat ccgcacgaga ctttttttga tgttcggtgg 300

aacactattc gttcgttcaa aaaaaatttt tattattttt tatgttttt 349

<210> 54518
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F1

<400> 54518

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cgatggcgcg cggcgtggtg tcggcggaagg ggcggcgcggt cgcgggcaag aagaaggggt 120

cggtttcctt cagcatcgac tgcaccaagc cagtggagga caagatcatg gaggtcgcct 180

cgctcgagaa gttcctgcag gagcgcatca aggtcgccgg cggcaaggct ggcaacctcg 240

gcgactccgt caccatctct cgcgagaaga ccaaggtcac cgtcacctct gacggaccct 300

tctccaagag gtacctgaag tacttgacca agaagtactt gaagaagcac aacgtgcggg 360

attggctacg cgtggttgct gccacaagg accgaaacgt ctatgagctc cgctacttca 420

acattgctga gaacg 435

<210> 54519
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F2

<400> 54519

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gggaaagtga cgagggatgt ctgcgagaat ggcgtcggcc aatgtcgtcg cggctctctcg 120

caaaaaaaaaat gtgtaggggtc ttttgacaat cgattgcac c aatccattag atgacaatat 180
catgtatgtg gacttgggtct atatgttctt acaggaccgc atcttggccg cctgcagagg 240
acctgtgccc atttaacact atagaaccat gtgtgaccag aatactaact taaccgtaac 300
ctca 304

<210> 54520
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F3

<400> 54520

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accgccatgc tggatgatctt ggaaacgtga cagctggagc agatggtgtt gctaatatca 120
atgtcaccga cagccagatc ccactgactg ggccaaactc aatcattggc agagctgttg 180
ttgttcacgc tgatcctgat gatcttggaa aggggtgggca cgagctcagc aagagcactg 240
gaaacgccgg tggccgtggt gcttgtggga tcattggact ccagggtga aaacgatcgc 300
cggacttggg ggtgcctgag aggtccgtct cctgccgtcc ccagcagacg agcctgaaca 360
ttcggagaca tcgtgaaata agagcgtcgc tgatctgtga tcacgtatt tgtcattatg 420
cacctgtagc aaccgatgga ctgaactgtg ctgg 454

<210> 54521
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F5

<400> 54521

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gcatcagacg gcgttgataa tatcaatgtc acctacagcc acaaccgact gactgcacca 120
aactcaatca tcacagagc tgtctttgtt cacactgatc ctgatgatct cgtaaagggt 180
gcacacgagc tcagtacgag cactggaaac tcc 213

<210> 54522

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-F6

 <400> 54522

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 tacgaagcgc tgtgcccggt ctgctccgcg tttgtcgtga acgacctctc cagggctcttc 120
 cgcgacggga tctcctccat cgetgagctg cggtctgtcc tttccgcaat gggcctttct 180
 cggccacagg aaccgtcact tggcaacatt gaaaggacca gtggccaact caacgtata 240
 gaagcttgcg tgatcagaat atggcctgac gcggagcagc attttccttt cattcaatgc 300
 gttgagcatt tagcactgac tcggaaatgg gactcctggc agtcttgctt tcatgaaac 359

<210> 54523
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-F7

 <400> 54523

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 agtaccagag gcggcatgcg gctaactgct gaaaccgtac tgctgcacca tagtcgtgaa 120
 ctaacattaa atggacttac aggcagatat ctattgacat ggctcaaact caatcattgg 180
 catgagctga tggtgctcac tctgaccta atgaacctt 219

<210> 54524
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-050-Q1-K1-F8

 <400> 54524

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 aattaagcag ccaaattcag tgcgatggcg tcgtccgtca ccagaaccgc atgtctcctc 120
 gtgctcacac tgttcgtcgt ctccgcgggc gtgatcttgc ccagctccct gtgccatgga 180

gccccgcggcg tcgcaggggtt acgtatcggt ttggacccta accatcctgc gtgcatccgg 240
 gcatgctcag ctccctgnggg ctccctacact cgccttcccc cctatcgagg tggcgccct 300
 gtggaaccgc ttccccacc gaacggaggg aaccctgac gccgntgcc tacgatggaa 360
 cgatgcgcca cgcacaactg tatcttagct gtgcttatat agtatatgtg atcaataaaa 420
 ctggagtagt gctcg 435

<210> 54525
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F9

<400> 54525
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 ctccacatcg tcgattaagt tgtaaagcag tatatcttgc tcgcttagta attttagttg 120
 ggttgaaaga attgtaaatt aaaacaattt tggtagttga ttttaatgtc gtatttctta 180
 tacc 184

<210> 54526
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G1

<400> 54526
 aaaaaacata caaaaaaaaa aaaaaaaaa atcaaaaaat atttaaaaaa aaaaaaaca 60
 aaagaaaaac taggacaaaa tcaaaaatca aacacaaatt aaacaacaaa catctaaata 120
 cataaaaaata taaaaaacct caccacattt aaatcgaata tattcttaat tccattacta 180
 tctataacat aacttattt 199

<210> 54527
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G10

<400> 54527

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ggttctcagt tctttgggtgc gcagtcagag aggcagcggc gatgtctggg cgcgtcaagg 120

tccgcatggg tctgatccag ggcggcgcca agcgccaact gaagggtgcta cgcgacaaca 180

tccatagcat caccaagccg atgatccgga ggctgggttag gatgggtggc gtgaagctca 240

tctaggagct tatatactag gagacccgaa gcgtgctcaa gatctttctc gagaacgtca 300

tccgcgacac cgtcacctac accgagcacg ctgcgccgat gaccgatacc gtcattgtacg 360

tcgtctacgc gctcaagcgc tagggacgca c 391

<210> 54528

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G12

<400> 54528

cggacgcgtg ggcgtcgcac tcgcccgcag aggagtacat gggggagttc gcggagccgg 60

ggtggctggc ggagcccatg gtgaaggcgg cgttcgagaa gttcggcggc aggatgaagg 120

agatcgaggg gttcatcgac gagtgcaaca acaacctgga cctcaagaac cgctgcggcg 180

ccgggatcgt gccgtacgag ctgctcaagc ctttctccaa gccgggagtc accgggaggg 240

gcatccccag cagcatctcc atctgatcca tctcagcat gcattagtcc aattaattaa 300

atcgggggtt gtactattat tgcattgaga ggctgcttgt cgaataaaac gtactatatg 360

tacgattgta ttgtacatgt gtgtcaatgc aacaagaggc acgtttgaga c 411

<210> 54529

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E5

<400> 54529

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acttccgata cccgcttgca tttgcatgta tgggtggcag ctgtctttgc aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaagga cgaacaatct aaaaagatcc aaagctaaca tacacaaaca 240
 tgcaacgtca taactttaat ataagtgtca cggaaattca attaaaatgg cegtactttt 300
 acaaattcgt gcctggaaaa acctatgcgt ttcccaactt 340

<210> 54530
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C5

<400> 54530

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 gaaggtgggc ctgagtcatt actgcggttt catgcctgca attctctagt cagtagtata 120
 aatactagtc tgcgtgtttt ctaatatgaa gatccatcta ttttattact taaccatagc 180
 gtagatgatt ggtaacagat agatacattt tatttactga ttaaaatgca gcagcgactc 240
 cccgaactta aaacaggtaa acgggtgtgg aaacttagtg gctcattcaa aactgtctaa 300
 aatcgggttt gctcaaaca agtgctgaca tggcatgtca tgttgaaatc atttgagtct 360
 ct 362

<210> 54531
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C6

<400> 54531

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 cagatagcga tggaccgttc gaactgcgct actgccgggc ttagaaccgc agacactcat 120
 aactacctta ctagggacta gagcccatac agtgatctac taaatcccag tacagtctcg 180
 agtgtcaaga gaagaatctg aacctagaag agctactgga tcctgatggg agagacacac 240
 gatgagcact ccaagacgg 259

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that this function is unique and satisfies the conditions $f(0) = 0$ and $f'(0) = 1$.

<400> 54532

<210>	54533
<211>	408
<212>	DNA
<213>	Zea mays

<400> 54533

<210>	54534
<211>	309
<212>	DNA
<213>	Zea mays

<400> 54534

23318

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tataataata tataataaat taaaaataat ttttttattt attaaaaaat tatatttttg 240
gaattatatt ttttaacttt ttttaattttt tttattttta atttttttta tttatttttt 300
tattattttt 309

<210> 54535
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D1

<400> 54535

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attattgtcg tattatccta tgaaaccctt ttattttcat ggtatcgaaa aagctctatc 180
gtgccagata aacataggct ccttgccctca atctgctgta atcttggtgg ttcactggac 240
ttatggttcc tga 253

<210> 54536
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D11

<400> 54536

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gcagcctccc cgccaacgag tgcaggtacg ccatcttcga ctacgacttc gtcaccgagg 120
agaactgcca gaagagcaag atctttcttca tcgcctgggtc tcttgacacg gcgcgcgtga 180
ggagcaagat gatctacgcc agctccaagg agaggttcaa gcgggagctg gacggcattc 240
aggtggagct ccaggccacc gactccgccg aggttggcct tgacgtcatc cagggccgtg 300
caagctgagg atgccacgag atgaactgcc catgccagag gatgtatgag catcatcagt 360
tccgatgaga acttaactgg gcgggctatg taaaaactgc atccaccgca gtgatgaaat 420
caatctagtc aatctaccac 440

<210> 54537
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-D12

 <400> 54537

aaaaaaaaaa aaaaaaaata aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaacatac 60
 gg 62

<210> 54538
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-D2

 <400> 54538

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 cgggcgcaag gtcggcgggc caaggaagaa gtcgggtgtcg aggtccgtga aggccggtct 180
 ccagttcccc gtcggccgca tcgggcgcta cttgaagaag ggccgctacg cgcagcgtgt 240
 cggcaccggc gcccccggtt acctcgccgc tgtcctcgaa tacctcgccg ctgaggttct 300
 ggagctcgcc ggtaatgctg ccagggacaa caagaagact cgcattattc cgtgccacgt 360
 gcttctggcg atccggaacg a 381

<210> 54539
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-D3

 <400> 54539

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 agtcttcact acgatagggt ccatagcaga ctttgtgttt gcttacaaca ccggcatgct 120
 gccagaaatt caggcaacca tcaggcctcc tgtggtgaag aacatggaga aagctctatg 180

gttccagttc accattgggt ccttgccctct ctatgctgta gtttttgtgg gttactgggc 240
 ttatgggtcc tcaacatcag gctacctcct caacagtgtc acaggcccag tctgggtgaa 300
 agcggttgca aatctgtcgg cattttttca gacagtcata gcgctgcaca tctttgctag 360
 ccccatgtat gaattcctgg acacaaaata tggaagtggg cgtgggtggc cttttgagat 420
 ccacaacgtg gcgttcagag tagcagtcag aggaggc 457

<210> 54540
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D4

<400> 54540

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 gttcttcacg acgatagggt ccatagcaca ccttgtgttt gcttacaaca ccggcatgct 120
 gccagaaatt caggcaacca tcaggcctac tgtgggtgaag aacatggaga aagctctatg 180
 gttccagttc accattgggt ccttgccctct ctatgctgta gttcttgtgg cttactgagc 240
 ttatgggtcc tcaacatcat gctacctcct caacagtgtc acaggcccag ttctgggtgaa 300
 agccgttgca aatctgtcgg gcatttttca gacagtcata gcgctgcaca tctttgctag 360
 ccccatgtat gaattcctgg acacaaaata tggaagttgg cgtgggtggc cttttgagat 420
 ccacaacgtg gcgttc 436

<210> 54541
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D7

<400> 54541

catttttagct cataaaatgg cttcgagcca aatcatccgt aggcaactcg agtctctacg 60
 gcgatagggt ccatagcata ccttgtgttt gcttacaaca ccggcatgct gccagaaatt 120
 caggcaacca tcaggcctcc tgtgggtgaag aacatggaga aagctctatg gttccagttc 180
 accattgggt ccttgccctct ctatgctgta gtttttgtgg gttactgggc ttatgggtcc 240

tcaacatcag gctacctcct caacagtgtc acaggcccag tctgggtgaa agcggttgca 300
aatctgtcgg cattttttca gacagtcata gcgctgcaca tctttgc 347

<210> 54542
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D8

<400> 54542

caattccctc tcgaccacaca cgtccgattt taactcataa aatgtcttca acctttttac 60
caaaaaaca 69

<210> 54543
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E1

<400> 54543

cccacgcgtc cgcttaaata ccttatgcta ctctgattgt gttgcaactt gcaactgccc 60
gtgtacttga tagatttgta ttagatgctc aagctacaga gggtagggtc ctaattatga 120
cc 122

<210> 54544
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E11

<400> 54544

gtcgtggtat tagcagtggg ggtggtcaga gttccttggg ctatctcttt ggcagtgcag 60
aagctccaaa atcatttgag aagcctgcac cagttcaaaa gccaaactcct ccacctctg 120
cagagagact aaaagatata gctgctggta ttcaaagtag taaatcaaac aattacaaaa 180
gatctgaagg ccagaacttg ggaaatttcc ttacggaccg tccgtcgacc aaagtgcag 240
cagctccagg tggcgactct tcaactcggtt atcttttttag tggcagcaaa gatggcaagt 300

gatgtacacc tgctgttagt gttcgcctatg atcatgggag aaggtttctg cttaacaaag 360
gaaaaaggga aaagaatctt gtattccatg aggtaatatc aaactgctca tggatatctat 420
gttggtg 427

<210>	54545
<211>	234
<212>	DNA
<213>	Zea mays

<400> 54545

<210>	54546
<211>	442
<212>	DNA
<213>	Zea mays

<400> 54546

$\langle 210 \rangle$	54547
$\langle 211 \rangle$	363

gactatgatc tccttcattg tgccctgtca ggctacctac ccctgcaccc tgttggttat 240
 tggttaaaat ggttattgac caaagggtgc ctgcatcaaa caaggctcac cttgatgtta 300
 atgtgctgag ggatctaatag tatcattagc gttatccagc tcttggtttac gtgctccatc 360
 tcaatccatg cacgtagga tggattgtct aatctagttc aaattt 406

<210> 54550
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A7

<400> 54550

tcgacgcgtc cgcagcatct tatgccaag ttctcgaggt acttccggac gccttcctat 60
 agagactctt tcgaatgtga atgaaatcga ggctctgaat gagctgctca agaagattat 120
 caatactctc actgattata gctcgattaa ctaggatgaa ttccaactag cttattttaa 180
 gaccatcaca aaggatagca tgtagctca ccgggtcata gactagtttg acacgatata 240
 caacggaatt ctcgagtttg atgaatttgc tcgtgccctt tctgtgttcc atccgtgtgc 300
 accaatcgat gacaaatttg attttgcttt ccaattgtat g 341

<210> 54551
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A9

<400> 54551

cccacgcgtc cgcgggagcg agagtgagaa aaaaaagtaa agagtactgt atagccagct 60
 attcatgt 68

<210> 54552
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B10

<400> 54552

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 gcgcaccctc gccgactaca acatccagaa ggagtccacc ctccacctgg tgctccgcct 120
 ccgaggtggc gcccaagaagc gcaagaagaa gacgtacacc aagcccaaga agatcaagca 180
 caagcacaag aaggtaaagc tcgctgtgct gcagttctac aaggtggacg acgccaccgg 240
 caaggtgacc cgctccgca aggagtggcc caacaccgag tcggtgacg gtgtcttcat 300
 ggccaaccac ttcgaccgcc actactgcgg caagtgcggc ctccacctag tctacaatca 360
 gaaggcgtaa tcccatgcgc cgctttgctt caccgccta cctatcaagc attcacctgt 420
 tggttactcg atttgaatat catttagatc t 451

<210> 54553
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-B11
 <400> 54553

cccacgcgtc cgcagaggtg ggctggcttc tcctccccct cttaccaagt cctcttcggg 60
 gtagggttac ttagggtttt gtggaggggc gatggcgggc gctgatgtgg agtaccgttg 120
 cttcgtcggc gggcttgctt gggccaccag caacgagtcg ctggagaatg ccttcgcctc 180
 ctacggcgag atcctcgact ccaaggtcat caccgaccgg gagacgggga ggtctcggc 240
 cttcggcttc gttaccttct cctccgagaa ctccatgctc gacgctatcg agaacadgaa 300
 cggcaaggag ctcgacggcc gtaacatcac cgtaaccag gccagtcgc gtggcggtgg 360
 cggtgggcgc ggtggctacg gcggcggtcg cggcgggcgc ggctatggtg gcggggcgccg 420
 tgacggcggt tatggcgggc gtggcg 446

<210> 54554
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-B12
 <400> 54554

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cctaccagaa gctacccggc ctactgttct tcaaaaaccc aaggacttgc ctgctatcaa 120
gcagcaggat atcaggacct ctteetcaaa agaagagccc tgcttctctg gtaggaatgc 180
agaagcagtt caagtgcaag atactaagct ctcccgggtca gacatgaaga aaatccgcaa 240
agctgagaaa aaagataaga agttcagaga tctgtttgtt acctggaatc cggtattgat 300
agagaatgaa gggttcagatc ttgggtgatga agactggctg ttcagcagta aaaggaactc 360
cgatgctatc atgggttcaaa gcagagctac tgatagttca gtgccgatcc atccaatggt 420
gcagcagaag ccttctttac aac 443

<210> 54555
<211> 123
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-050-Q1-K1-B6
<400> 54555

gaaatgctaa gcaacgaact cgtattatcg attgtggatc tctagctttg atatcacgtt 60
agagtggacg cactgataac cagtttaaca taaaagttta agcaatccac ttatactttt 120
ctt 123

<210> 54556
<211> 432
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-050-Q1-K1-C1
<400> 54556

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acacattatg cgaagttttg acggcacggg taccctcatc accagacgtt tttccatggt 120
tgaaaccgtg atcgggcacc ccaacagcta ctagaaagtg atactcttta tcagtcagtc 180
aagctgaata ttttcaaaat tttcagacca tacagtgata agcatgctac tgctggacag 240
tcgaccta atgtctgtcct gcggaattgt ttctgggagt gtgtattgct aagtcgggtt 300
tgtccgagtt atacgagaca tatggcttga gtcgtgtcac caatatgctt atgccatatg 360

actatcagag tntacttttta atttcagaga acataatttc catcaatttc agtaggttca 420
 tttttaatga at 432

<210> 54557
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C10

<400> 54557

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 ggaaaaataa aaaaaaaaaa gaaaaaaaaa aaaaaaatg gaaaaaagtt tttatggttt 120
 aaaggttcca tacttttgtt tgcttggttt taattttttt attttgttac ttagtttaat 180
 ttaattaggt catatgttta taattttata aactggtaaa t 221

<210> 54558
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C11

<400> 54558

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 gtgcactagg agatctagtt gaaggtgaaa cgccattgga cattactaca tggattatgg 120
 gaggtgggat ttgggttggg ttggctccga atgcgatgtt atgccttagc acgtgatccc 180
 ccaagaacaa taatttttct ttcaggcttc tccctaaccg aacattggag aggacagcat 240
 gtaaagaaat gtaaaaatgt accggttctc gatcaaaaaa aaaaaatatt attaaaatta 300
 taaattatat taatat 316

<210> 54559
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-050-Q1-K1-A10

<400> 54559

<210> 54562
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C3

<400> 54562

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 gctagacgac atcgcgagct tcttcgcgtg acccgcgctg tctagctgac caagggtagg 120
 gaatcaaac aaagcagccg atgtggcgta gtatgtgacc gagccctctg gctctgcttc 180
 ctgaaactgg aacagaacag aggaggggaag agcaccagag ctctgcttcc tgggggtccat 240
 gcagatgcag gatgcaggcg taaaaacctt ggagatgaac aagagtagag actgcatttt 300
 ttaccctct ttttttgtga atcttattgc tcttcagag gactgagggg attgtgtttg 360
 cattgtatta ttgattatta atgtcaatgg gaaaaataag atccttcgtg cc 412

<210> 54563
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F6

<400> 54563

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 tccagaatcg cgacagagtt gcagagggtc cgaatgaagc tgatgaacta aataatatca 120
 aaaaaagtaa caataattat ctaagaaaga caagccaatt gcaagcacia atagagatgc 180
 cactgttgaa tatcaagctg attaccaaac tattggattg ccaaatatca ttgagaatat 240
 ttcaaaaact gggtcacattc ttgctgagat gcttagcgaa gaacaagggc taaatctaga 300
 gatagattaa aacatacctg atattggttt gacaatcttt aaaggacaga tggagc 356

<210> 54564
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F7

<400> 54564

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ggaggcggct acggcggagg cgggtggaggc tacggcggcg gtcgcggagg ctacggctgc 180

cgtggcggat acgggtggtgc acaccgcggc ggcggctaca ggaacaacga cgggaactgg 240

aggaactgag c 251

<210> 54565

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G1

<400> 54565

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tgggatgcta ttaatgattt aagagctgac atgggtagac ttcagcaagg gatgagcagc 120

atgcagagga tgctggaagc gtgcatggac atgcagctgg aattgcagcg ttctgtgaga 180

caagaagtgt cagctgcctt gaatcggttt gcaggacctg aaggattgtc gatggatctg 240

tgtgacgatg gatcaaaatg gaatcaggtg aggacaggaa cctgctgcgt atgctgtgat 300

tcacagattg attctctact gtacaggtgt gggcacatgt gtacttgctc gaaatgtgca 360

aatgagctgg tgcgcagcgg 380

<210> 54566

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-G2

<400> 54566

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ggttacagct ttgacaagtt tgagaaggtg aagcccaaga tgatacaggc cgtggatgat 180

atgcttggat atgacattcc tgaacttctc aagaacttca gaaacccata cgagtgaacc 240
 catacaggcg gttgaaagat gacttcgata tgcaacagaa tgagggattg attgtcaggc 300
 gatgtgaatc atagtgggtca atgtctcttg gggcgttcat tgccatccat gcttagccat 360
 tgntatataa ctttatgcat aagaatcata gagccattgc tcaagctttc accagacatc 420
 tgattatgta aaatccacaa aatagtaat 449

<210> 54567
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G3

<400> 54567

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 gaccaagcg ccatggccgc cgccgcccc gacgcagacg cctacgatat cccgtgggtg 120
 gagaagtacc gccccgcccg cgtcgctgac gtcgtcgaa actccgatgc cgtcgccccg 180
 ctggagggtca ttgcccgcga cggcaacatg cccaacctca tcctctccgg gcctccgggg 240
 actgggaaga cgacgagcat cctggcgctg gcgcgatgac tcctcggggc cagctatcgt 300
 gatgccgtgc tggagctcaa tgccctcagat gacaggggtt tggatgttgt gcggaacaag 360
 atcaagat 368

<210> 54568
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G4

<400> 54568

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 agagaaacgg tcaaatataa aactgattta agacaaatat ataaagggcg tccattattc 120
 aaaatacttg ctgtctaaca acagcatgaa acttgatgac cctagttta 169

<210> 54569
 <211> 373
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G8

<400> 54569

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ccgactgcgg cctcctccgc gaggactatc tcgagtgcct ccaccactcc aaggagttcc 120

agcgcaggaa caggatctac aaggaggagc aacgtcagat cagagctgct gctcgtaagg 180

ccaaggagga agctgagggg gcccctgctg ttgcagcaca ccattagtct ccctgtctat 240

tttttgtgtt gttgttttct gttaactcat ctttggttca gttatgatgc taagggaag 300

gcaataatct ccagctgttg gactacacag atttttttcc ccatgactta aatatcaaga 360

ctcattctgt gct 373

<210> 54570

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H1

<400> 54570

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gaataaacag ataaagacag aagataaaaa aaaataaaga aagtgaataa taaataaaaa 120

aaatgggtgg cagctatata gggtggagaa tgatgtagg acatagcagt tatagagggt 180

caatttagta aaacatatat aaaatgcagt gactgtagct gttaacagtc tgattgggta 240

aataatgga 249

<210> 54571

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H4

<400> 54571

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ctgtttattc tatattctat ggaaaatgct tatttaactt gttaacaatg taattatgct 180
 tatgatattt ggatgatgat attgctcttg tttattacca tttttattag ttatccaact 240
 ttttaactctt gtaagttcca tccgtcttgt atgggaatga ccattgagca agcaaaacag 300
 atagatcatt acatgtgctc ggattgtgct aaagtaaagtg gtgcaaagtg accctcaaat 360
 tcatactgaa tttcaccaaa ctgagattct aagattgaat caaatatgct catgagataa 420
 atgc 424

<210> 54572
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-H5

<400> 54572

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 agtatccaca agtccaaggc tgagaaggcc agagagaaga cactttcaga tcagtttgag 120
 gccaaagcgtg caaagagcaa ggcaagccgt gagaggaaga ttgctaggag ggaggaaagg 180
 ctggcccagg gcccaagaga accaacagca cctgtcgcag ccccagctcc atctactggg 240
 gtgccaaaga aagcaaagaa gtgaagtatg gaaacaaagc tgtagctttt tggactata 300
 taagcatgac tttggagcac ctgaagtatt ttgctgntct ataggttcgt gtctcaatat 360
 tctgagtctt gtatctctac cggctctgtt gataatgcat gccgtaagag ttgtttatgg 420
 agctcttggt gttac 435

<210> 54573
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H6

<400> 54573

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 aatccagaag cgtctagaag ggggaggtgg tcgcccata cgtctgacc ggccgtcgcc 120
 atgggatgcy ctggatccac tccaaagact gacgataatg gtaagaattt gaagaaacca 180

aagccttgga agcacaccca agcaataacg ccggcacaac tcagacagat gcgtgatgaa 240
 ttttgggaca ctgctcctca ctatggtgga cagaaagaga tttgggacgc acttagagcc 300
 gctgcagact ctgacctagc gcttgcgcaa accatagtgg atagtgctgg catcatcgta 360
 tcgaattctg acatgacact ttgctacgat gaaagaggtg ccaaatatga gctttcaaag 420
 tacgttctaa gcgagccaac aaacttgatc aagga 455

<210> 54574
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H8

<400> 54574

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 atcgagttcc gtccgaacac cgcagatgat ccgcacaagc gcaagcctga catcagccgc 180
 gcgaaagagc tcctcggtctg ggagcccaag gtccccctcc gtgagggcct tccccgcatg 240
 gtcactgact tccgcaaacg tatcttcggg gaccaggaag ggtccaccga gtcagctggt 300
 ggcctttctt aagtgtcaa aacttggtga agtgacacgt ttgtatggta tatgacttga 360
 tacagttttg gcgctgtgct ctatacgtag ttgttatata gggatataaa tgtttggtta 420
 agtacggaaa atagcctggc acgtataact atgtaacgac 460

<210> 54575
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-050-Q1-K1-A1

<400> 54575

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 tccccacta cgactcgagc gagtgggact ggctgcgcgg cgcgctggcc accatggacc 120
 gcgactacgg catcctcaac cgcgtgttcc acaacatcac ggacacgcac gtcgcgcacc 180

acctcttctc caccatgccg cactaccacg ccatggaggc caccaaggcg atcaggccca 240
tctctggcga ctactaccac ttcgacccga cccctgtcgc caaggcgacc tggcgcgagg 300
ccgggggaatg catctacgtc gagccccgagg accgcaaggg cgtcttcttg tacaacaaga 360
agttctagcc gccgncgctc gcagagctga ggacgctacc gtaggaatgg gagcagaaac 420
ccagaggagg agacg 435

<210> 54576
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F5

<400> 54576

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ggctgcggga tgcgttcac accagcctgg acgactgccca ggcctacacc ctgaaccgga 120
tccacgaccc ggactaccat gtcgagctgt gcacagagct catcaactag atcatggact 180
cgaccaaggc tgcggagggtg ctcgctaagc tgaactatgg aagcgaattc gcacacacgc 240
tggtggacac cctgatcctg accatgaacg gcataccaaa cagccttcaa aacaccgggtt 300
aaaccactaa gaggtgatct tgattattct cctgatcatt ggct 344

<210> 54577
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D3

<400> 54577

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ggaccacaca aaaagagaag cgaaaaaaag aacatgacta actacgcata aacaaaaagcc 120
aagcactaca acgccagaca gccccctata atgaagtgag aaatgaaacg agcaatcact 180
agatccttac gatcccagga accactctaa atgtaccagc cgagacctac agaactacca 240
gccacaage caaccacgcc ctctactag gatattatct atccctactt tcc 293

<210> 54578

<211> 405
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-D5

 <400> 54578

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 cctcttcggg gagggcgtgc tgtatgccaa gaaggactac aacctggcga agcaccacaca 120
 gattgatgtg cccaacctcc aggtgatcaa gctcatgcag agcttcaagt ccaaggagta 180
 tgtcagagag accttctcct ggcagtacta ctactggtac ctcaccaacg atggcattga 240
 gcacctacgc aactacctga acctnccgtc tgagattgtg cctgccacgc tcaagaagtc 300
 tgccaggcca ctggggccgtc catttggtc tggccctcct ggtgaccgnc caagggggccc 360
 tggtcgtttt gaagacagac caaagtttgg agacagggat gagta 405

<210> 54579
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-D6

 <400> 54579

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 gtaccacagg tgtttgaatg ccaaagggga tgatgctggt gtttgcgaaa aatttgccaa 120
 gtactacagg tccctttgcc ctggagaatg ggttgagaaa tggaacgagc agaggagaa 180
 cgggacgttt ccaggacctc tctgaatgta ccgtccgaga ctttcagttg gaccagtcaa 240
 caagttggcc aggcagtcct actgttccat tctgcattcc tacttcccga atcgtaaagt 300
 ccttttgtcc cttgctcttc aaccagtcac cacaaaactg ttagtgatgc ctttcgtacg 360
 cagctctaata aatttggcta cagatgcccc aca 393

<210> 54580
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-D8

<400> 54580

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atgtgctcca tatggaaaag gctgaaagaa gttgcctcat gctgcattat tgtgttaaagt 180

gagcaacat ttctatctca ttaaccgctc tgctcttaac aagtgaatt aattttgggtt 240

cttgataaat acttgatttt gaagggcagg ctggtttagt gatgagagt gtttcactaa 300

gtcaccggat cgtaagtctg aagcaacatc tctgcatttg cagaggaagg ctggtattga 360

tttattcttt ttctaggtcc cacacacgtg ggagtctctg gcactagggtc ttgcccccttt 420

tataaatact tgattttgta ttaacagctt tt 452

<210> 54581

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E1

<400> 54581

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cggcgacgca gtcccagccg ctgccgacct gcccgttctg ccgcggcggc atcgcgcggc 120

tgggtggtggc gacgcggacg agggctggcc acgacgacga gcgggacaag ctggagtcgc 180

ccaggcaccg ccggtcccggt cgggtccatga acctcagcgg cgacgcgggc agcaccagca 240

gcacactcat gggcagcatc gcctcgtcca tcggcaagat gggccgcccg cgaacagata 300

gcagcgagca ggtcgacgac aagccgtagc agaatacttt catgcaccgc tccattcata 360

atccacgtga aatcttgccg cgtcgtggcc gtcggcattc cattccttca ggaacgaaca 420

agccggtgtg ttttgagatt atttttggca aatgag 456

<210> 54582

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E4

<400> 54582

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 attatcgaac ggtacgaaat gttgtctcaa agtacttagt aatgatgtag tcatagtctt 300
 gatgaccagt atacattctg ctttgaacat cgtctagtct attaaca 347

<210> 54585
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E8

<400> 54585

agtgtagtac tagctagcca gtttgccctgt tctactagcca ctagccaatt tgcgacttgg 60
 caatgcaaat caagaaatcg acgggcaaat atttttctcc tgcaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaagg ggggcccgtt 240
 ttaagaaccc aatgttacca tccttggcat gctacttcat aacctttata tagggccacc 300
 taaatataat ttacttgccc ctttttaaaa aacgtgaaac tggaaaaacc ctggctttac 360
 ccaatttaat cccctttaaa gaaaatccct tt 392

<210> 54586
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F2

<400> 54586

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 ataatcgaca aagggagcgg tggtatcttg aaagacaacc cagttgctgg cacaaatggt 180
 ggtgccacgt gggcctacga ggttgctggc caaactatgg ttgcccacat aatcattgag 240
 gatctttcac cacctggtca gatgcttggt gagatgcttt gcgaggaaca agggctcttt 300
 ctggagatag ctgacaacat acgtggaatt ggtctgacgg tcttgaaagg acggatggag 360

ctctgtgatg gcaagatatg gtcgcggttt cttgtcgagg caaacagaga ggtcacaagg 420
atggatatat ttctgtcgc 439

<210> 54587
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F3

<400> 54587

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taaaaaaaaa acacataaat aaaatataaa aaaacaaaaa taaaaaaaag gatagactgt 180
aaaaaccctc acaataccta actcaattaa tcttgaataa aatacccttt atgctatcta 240
ccataataac aaaaagggtc ttacttttaa accctttcca acatttaa atcttctgaat 300
tactaattaa actcactttg aaacaaatca ttatatcaa cagtttcata tattacaaac 360
aatatt 365

<210> 54588
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D1

<400> 54588

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tgtctgaagt actgaagaca ggggggctag ctatcta atgctgccgc acgcatgagc 180
tgtaaggagg ccatgcttaa ttattctgtt gccgctgcta ctctatctat atgcgcctat 240
gcctccgtgc atgaactatg ctttaggttg ttgctgctcc aactgtggt ggtgtgcttt 300
tgcttttgtg tggtcgtatt gtatgcgtaa cctgacagat ggatccctga ttgctacatg 360
tttgaataat 370

<210> 54589

<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A8

<400> 54589

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ccgtgagaga tgtgcaggag gcctgtgtac atgatggata tgttctaccc aaattgtatg 120
caaaggttca tcaactgtgtc tcatgcgcaa tccatgcgca cattgtccgt gtccgctctc 180
gtgagaacag gaggaaccgt gagccccgcg agcgcttcag acgccgggat gatggcccaa 240
ggcctggtca gggcccgccg cgcccaggcg gtgcagctcc tgcagctgca gctgctgctg 300
ctcctcgtag ctaagttctg gaattagttt cggggcttag ttttgtgaaa cattacctgt 360
tttgagaaac cattgttact gtatccccct gatgtcaaac ttttagcac aatttgtggt 420
tctgaaaaag ttggttgaat gttgcagct 449

<210> 54590
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B1

<400> 54590

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gctacagtta gccaatatgt tgtctgtcta tgtcctcgcg aagtactaga gcagtagcta 120
cataccgtgg tttgtccata tctgtgtgtt agatgatcaa gggtgattag atacatgttc 180
tggaaccaat gttcagatga caaattgcaa actaaacacc cttttgctct ctatctttat 240
tttttttttg caattgcaat gcgtgtaaag tacattatca atgtcagccc caggcatatc 300
aataaaaaaa aaaatgaaca cacaaaaaaa agaaatataa aaaaacattt agaacaaaag 360
ggaaagagac ctattgcgat ctgcaccaa aacaaaaagc attaacattg aagct 415

<210> 54591
<211> 427
<212> DNA
<213> Zea mays

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gcgcatctac gtcaagctcc gatccgaccg cgagctgcgc ggcaagctcc atgcgtatga 240
tcaacattta aacatgatac ttggagatgt tgaagaggtc gtgacaactg ttgagataga 300
tgatgaaaca tatgaagaaa ttgtgcgcac cacgaaacgc actatcccct tcctttttgt 360
ccgaagtgat ggtgtcatat tggtttcttc aacccttcgt a 401

<210> 54594
<211> 339
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-049-Q1-K1-B8

<400> 54594

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gtgcgggtgt ggcgggggaa gcaacacttg ctgcgaaga agaacaccaa gcgcaagaag 120
agactctcca agatgctatt tttgactgct tcaacggggg cgatgtcggg gagggcgagg 180
cgggagaggg caagtctgc cggggccacac ccggaccgga gctccacggc ccgagttecc 240
gggaagcggg gcacgtcggc aaaggggagg gccgggtcgc ggatgcagcg ctgcacgaac 300
ttgacgagga ccagggacga gggccacaca gaggtgccc 339

<210> 54595
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C1

<400> 54595

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gagcgtaaag gcagctggcg tgtggacatg cggcgcgacc aactacgtga cgcttgagat 120
caccatcatt catagagact acgatgcata catcgtgaag aacctcatag atggcctaga 180
caatgacaac agtactaata aggagatcga cgagcctgaa caacacgacc atagcaagag 240
acagatcatg cagaaggatt tgatctacga gaacattaca tcgaaagggt cacatagacc 300
tcaagcagcc atagaaggca acatacgacc tgagcattac aaggatgacc tagactaaaa 360

taccgatctt taccaaccaa gattgaatgg acaaaatgta tgctattgga caacattgaa 420

t 421

<210> 54596

<211> 189

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-C4

<400> 54596

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cgtcctcagg aagatgagag cggttggtac gcacactgac aagaagaaat aaagcatttc 120

aagttcatga atgtgttnnga nngagtagat gntcttctat tgcccaatat atatacgacc 180

atcagtctt 189

<210> 54597

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C5

<400> 54597

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gctctcggat cagttcgagg ccaggcgcgc caagagcaag gcgagtcgag agaggaagaa 120

tgctaggagg gaagagaggc tggcccaggg cccaagagaa ataccaccac cagtctcagc 180

cacagctccc actaccgggg caccgaataa agcaaagaag tgaagtattg caacaaagct 240

gcagcttact agtccagtac ttcgtaattt tggagcgccc tgatcaattt tgctgttata 300

cagcttcgtg tcttttattt tccaaaagct accgtacctg gatttggtaga gatgtttacg 360

cagagtttct ttggaagaag atccgctcaa aaaagtttat ttggatc 407

<210> 54598

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C7

<400> 54598

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tgcccttgct gaaaggcgaa tcaaaagaaa cccttcttaa gcttgaaaga gatgagttgt 180
tcagctcaga ctcgatgggtg agttcacaag gaacaccaac cccagatggg ggcacagact 240
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ggcgatggta gaatgcggat ttgtgttatt ggttgatgtt tggtttgtgc ggtttgacat 360
gaatgtaa at tgtataggca ttggtttctg taaagaagta tttaccatt ccttttgaga 420
gattaaagaa gagcatgggg gctgg 445

<210> 54599

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A6

<400> 54599

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ctatgggtggc gtttcaaggt ttcaggatgc aaggggtcgc aaccagtcta ttccatcagg 120
cagaggtgggt gatgggtgggtg cacgcatggt gaatctgaac aggattggta gggtttagaa 180
gtgataattt tcagctcgag taagcctgaa attctcctaa aagccaagtt ttgaatcact 240
ggtttttaca tagtttctctg ttctgggctg agccatccac ctgtttacta catttcgttg 300
tagcctttta atttaagggg ctaggaaatt gaactaagag tttggtactg tgaactaaga 360
gtttggtact gtttctctggg agtgtgactt cactccaata tttgatatct atctgtgaca 420

<210> 54600

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-G6

<400> 54600

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gagttggttt gtggcttgtc ccacatgtac aacgtttagca atgtcttcgg aatacagaat 180
gggtacaagg ggttctattc gagcaattat cttcccatga caccaaagag tgtgaatgat 240
atccacaaac gaggtggtac agttcttggg acatcacgag gtggccatga taccaaaaag 300
atcgttgaca acattcaaga tcgtggaatt aatcaggtat tcattatagg aggagatgga 360
actcanaagg gtgcatatga gatttacaag gaaatccgga gacgtggtct acaagtagct 420
gttgctggta tttcca 436

<210> 54601
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-G7
<400> 54601

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gacgaagtaa tcgtatgata atgataacac cattgtgaca aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaata aataaaaaaa aaaatggggg 240
gggagatttt taaaggagga aaatcaaaat tgagtgcacat gaaaagggat tttttttttt 300
tggggggcga aaaaataaaa ttgtggggcg tttaataaaa aggggggttca tgaaaaa 357

<210> 54602
<211> 335
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-G8
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gtttaccatc cgcgagaagt tgaatgcggc aaccagcagc atgttgaagt ccccagaagg 120
ttgcgctatt ttgtttttga aagggttgta tatgaacat gatgggttatt aagaaaaaga 180

<400> 54605
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 atagcagaaa tcccggacga tcttaaagca atctacaaaa ctgtttggga gatcaagcag 180
 aaaacttttag ttgacatggc gggtgaccgc ggatgctaca tcgaccaaag ccagagcctc 240
 aatgtccaca tggagcaagc aaactttggg aagctgacgt ctcttcactt ccatgcttgg 300
 tccaagggcc tgaaaactgg aatgtactat ctacgcacac gagctgctgc tgatgcgac 360
 aagttcacag tggataccac gcttctgaag gagaatggga acgggggttag cga 413

<210> 54606
 <211> 229
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-H12

<400> 54606
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 aaaaggggtg gccgttttat attataaaaa tttacatacc tgttcattgaa acgaaataga 120
 ttttttttag ttgaacttaa attaaatcaa ctgtgctgca tttaaaaaag tcataacttg 180
 aaaaaccata tggttcacaa aataaatggg tttgtaacaa atctccttt 229

<210> 54607
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-H2

<400> 54607
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 aattgaagat cacatggcta gcagatatag aggagctagt tcccctttca ttggttgaat 120
 ttgattacct catcagcaag aaaaagctag aggaagacga ggacttcctc gacaatctca 180
 acccttgacac tcgacgggaa atcccagccc ttggagatgc gaacatgagg aacatcaagc 240

gtggagagat catacagctc gagaggaaag gctactatag gtgtgatgcc ccttttatca 300
gatcgtccaa accggtgggc ctgtttgcga tcccagatgg caggcagcag gcctcgctta 360
gctaggcatg gtgaccaccc tttngngcac atggaattcc tgaagtggcg at 412

<210> 54608
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H3

<400> 54608

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gatctatctg gctgggtgctg tgcttgcttg ttggctacct cggggaagct aaaaatatct 120
cgtcttggtg acatccttgc agttgccgcg tgaacaagta atctatgatg gcaatgtttg 180
cctggccatg aagtattatt actttcgttg aaaccgtgat gctattaaga cttaattttt 240
tttatggacc atcgaatgta aggcatacat ggttatgagt ttggtcctcc cct 293

<210> 54609
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H4

<400> 54609

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ttagatgcaa gaaacaaggc aggaatgact ttgtcatacg cctgcaacca tcataagcca 120
tgtacatgaa actaacgggc aaaaaacccg gactggaaat agctaccgaa caaagcgaac 180
tggatctatc gtatgggatg cggtacaatg gcgtcaaaat cccagaagca tacgagcgtc 240
tcatcttgga tacgattaga ggagaccagc agcac 275

<210> 54610
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H5

<400> 54610

gtcgaccacg cgtacggaaa ggcgaaggaa tttagaaaga acgaggccca ggagagtgtc 60

atagctgaat catatggcgc aggtaatgat gaattgcggc aaaaaaagaa aaagaaatca 120

actaagtcca agtagcccta atcctcatgc ataatgacac tggcaattga gaaggattgc 180

atgagccatc cctataatta tgtcattcat gctgtgatcg tattagatga tgaaacaaaa 240

ttcgaacctt ccgct 255

<210> 54611

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H7

<400> 54611

cccacgcgtc cgcccacgcg tccgtccact cgtccgcca cgcgtccgcc cacgggtccg 60

ggacagtggg aattcctccc aaaattcttc atcgaagaac aacaattcca gttcttgggg 120

cgattgggac gaccaaggca agaagggtga acctgcgaaa ccgcaccaaa gcagtgactc 180

ctgggctggc tgggatgatg ggaaggacga tggttttgat agtcctgggtt acaacaacca 240

caacagctct aacaagggga gcaaccacaa cgggacttcc ggtgggtcat tttggaggga 300

aggcggcttc cgctgaaacc gttctcttct ccatagagtt atactttcag agttgttaca 360

ttg 363

<210> 54612

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H8

<400> 54612

cccactcgtc cgcccacgcg tccgagcgct acgtgtacaa gcgccgcact gatgggggtcg 60

acattattaa ccttggaag acctgggaca agcttcagtt ggccgccagg gtcacgttg 120

ccattgagaa tccgcaggac attatcgtgc agtctgctag gccctatggc cagaaggctg 180

tcctcaagtt tgcgcagtac actgggtgcc atgccattgc tggcaggcac acttctggta 240

<210> 54613
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H9

<400> 54613

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 acatacttaa cggtcacatg aaatgcaacc gactatgatg gggattctgc tgaactgtat 120
 gcgttcaaaa ggacaactat attgatccgc cccaccactg tgcttgtgat caacctgctt 180
 ggcataatgg ctggcggttg acttgcctatc atcacgttgt tccaatgcat cacttccact 240

<210> 54614
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-A1

<400> 54614

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 gtgtacgaat ttgtaccaca aagggatagc cttagtttac tttcaaact ggaaccgtgg 120
 caatttctcc aattgagatg ttccagtctg tctttacact tgttgaagat gaaatgatgg 180
 gtgatcctgc atatcttatt gctgtcatca tagagtttct acggagtgtc tcaaaggctg 240
 ggcttaaggc tcctcacaac ctttatgtga tgacggcgac actactagct cgtagcaacc 300
 gttacgctga aatagcattg tttgtgtcaa acaagattct tgagccgtgt aaagaactgg 360
 caatgcaact tatggagctg ggtctgcagc acccgnaac gaggaagctg ggcattggaca 420
 tgc 423

<210> 54615
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-G5

<400> 54615

atctgatccc ctgcttgatg cggccaaatc gaacttgta aaagtcctca cattgtctac 60

gaaacggtag aacaagagaa gacctaacctc ctaaggaaat tgccactgga gcctcagagt 120

tcagacacgg aagcgcgggtc accaaatctc tgttctgaag tgtctcaact gccagctcaa 180

aattgatgct tgggtgcctct agtctactgc tcattgctca cagagtcaca ggtgtaggaa 240

gtttcagaag tgcggcttcg aagactgcat ttgattttga ctgagttgct gcctatatga 300

caatcaaagc tgcacaggct ccgaagtggc tgtgatgtgt tcttaaagag tcgcatcagc 360

gcaggaagag cccagatttt gaagttcatg tgtagctaaa tttcgatata agcttgaacg 420

gcttccctta gctgatgtat atacat 446

<210> 54616

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A3

<400> 54616

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gggtgctttt gtgactgac cactctggag cagctagagt gatgtagttg tgggcttttg 120

aacaatagct ggagtgatat gaaacattag tgatgtagtt gtgggctttt gaactgcttc 180

aagctggagt gatgtcgttg tgggtgctttt gtgactgac tagtcgtgaa tgatattata 240

attgtgaaaa aaaaaaatga aatgaactaa aacatacacc tgtataatac attaaaaatg 300

aacactatta atttaaagga ctaagaaatt gaaactaaga attaggtact gtgaaactaa 360

gagtttggtg ccgaaaaaaaa aaggggggtga ctttttaag 399

<210> 54617

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-A5

<400> 54617

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aaaccaagg agaataattt caaagcaatc ctggaatcta tacgtgatct aatgaatgaa 180
acatgtgtag ttccagaatg gttgcataac atattcttgg gttatggaaa tccttctgct 240
gcacagtgga tgaatatgcc tgatcttctg gaagttatag atttcaagga cacttttctt 300
gatgccaacc atgttcagca aagttttcca gattaccagg tatatatatt gactattttt 360
tttttttttg cttttttgga gtgtatctat tctcattttc atcttcaatc tccagtgate 420

<210> 54620

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-F11

<400> 54620

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ggagggtttg tccgtacagt tacaataaat gcggattgag tgaagaggaa cttttaccct 120
ggcgacaagc taccctgtg gcacgacgag cttgaacccc aaaactcggt gcttgatatt 180
cttgctgctg ggaaccctga tcccatgggt cagtgaactc gccctccact tactttgtga 240
acttttcact gtatctgact tgttcttgat tatttctccc tgaactatgt cagaccagag 300
taatttacga attgttggtt tgcacacctt ataaattcat gtttagctgg gt 352

<210> 54621

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-F12

<400> 54621

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ggacttcccc acggggtaca tcgacgggct caagcgggag tacaaggcgc acagcggcag 120
gttctgctcc ggcttcgacg tgctcacggc caagctctgg cagtgccgca cccgggctgc 180
ggccctggac cgggcccgcg aggtcaagct ctgcttcttc gccagcgtcc gccacctgct 240
caagctcgac cgggggtact acggcaactc catcttcccc gtcaagatgt ccgcgccggc 300

agagaagggtg ctggcctcct cgctcgtgga ggtggtcgac atcatccggg aggccaaaga 360
caggatggcc gtcgagttct cccgcttcgc tggggaggag 400

<210> 54622
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-F2

<400> 54622

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atcatgagaa tcatgctatt tacgttgtaa ctttaggatt ttttttttat gtacctgtag 120
gcctttttaga ctcttgtaga taagcttcta gtttttagttc gtttatacgg cccatcctgt 180
agttttgatg tagcagctct cagctctgcc actgctacac caacttatgg catgtataag 240
tgtactaata catggtcac cagcatgatac attctttaga tgcttggtca attttttaga 300
tgcttggtgg tggc 314

<210> 54623
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-F3

<400> 54623

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gaaagggtcaa aattgttgac tggacggatg angaattaga gcaaacttca gaggcagttg 120
gatatggtgc tgtgaagtat gctgatctca agaataatcg tctgactaat tacacattta 180
gttttgaaca aatgctgagc gataagggaa atactgctgt gtaccttcag tatgcacatg 240
ctcgtatttg ttccattatt cggaaatcca acaaggatgt ggaagatctg aagatgactg 300
gagccatttc tcttgaccat ccanatgagc gtgtgttggg gctgtatctt atccgatttg 360
ctgaggtggt 370

<210> 54624

<211> 346
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-F4

 <400> 54624

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 agaaaaggaa aaattaaaaa aaaaaaaagg aaaaaaaaaa aggggngnnn ntttgggggg 120
 tccctatata aaatcccaat ttactgcccc gtccatccac cgtcatagct ctcctaaacc 180
 caaccaaact ccatccactc ccaccctttt aacaacaaaa cccctggaaa accccagcct 240
 atccccaaact aaaaccccc ccataacacc cccctttttc aaactgaaaa aacccccaaa 300
 aacccccccc ccaaccctt tcccaacatt tacccaacct aaaacc 346

<210> 54625
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-F5

 <400> 54625

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 gcacgtaaaa ataaaaaccc cttaagaaaa tagggttctc aaaatagccc taagaaatgc 120
 aagaaatccg gcacgttaca cttctgtcca caacatagct ttttgcagag attcagtaca 180
 taaggattct tcaaattaac cataccacac cataacatgg gacatttgcg aaactacggg 240
 tacaggatc aaaatgcaac gagttcaata ctaaaatata agcgtagtgc aatctaactc 300
 tcttcctcgc cctcggttctc agcaatgttg aagtagcgga gtcataagac gtttcggtcc 360
 ttgttggcag caaccacgcg tagccaatcc cgcacgttgt gcttcttcaa gtacttcttg 420
 gtc 423

<210> 54626
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-F7

<400> 54626
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 gatcttcaca accctgtgct tgtaagcctt tttgttggtg gggactgggt cactgcaatt 120
 ctgtcgtttg ctgccgcgtc tgcgtccgcg ggcgtgacca tcctgttcga gagggacgtc 180
 cacttctgca ggatgtaccc gcagttgtcg tgcggccggt acgcgctctc ggtgggtgctg 240
 gcgttcatca cctggtcctt catcgcaact tctgctgtct ccatgttctg gttgctgccg 300
 tcgctctgat gtggcacgga aagagcctgc cgtgtcgtcc tggt 344

<210> 54627
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-F8

<400> 54627
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 aaaattacaa taattgttgg tggaagtttt ggggctggga attatggaat gtgcggacgt 120
 gcatatagcc caaacttttt atttctttgg ccaactgcta ggatatctgt tatgggtggc 180
 atccaggcag ctggagttct cgctcaaata gaaaagaaca aaaaaagag acaaggagtg 240
 gagtggagca aggacgagga agaagccttc aaagccaaag tcgtggaggc ttacgacaga 300
 gaaggaagcc cgtactactc cactgctagg ctatgggacg acgggggtca 349

<210> 54628
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-F9

<400> 54628
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 gattcctctg ctagaatcat cagcagatcc aggctattct tattttggtg ccccggaatt 120
 tgatcaatga atgttttgaa gcaagaacta actgagtgtt aaaggagctt agatcaattt 180
 aaggagagcg gtttgtgtcaa ggctactctt aggtccacag ttgggtgttt gattttatcg 240

ccagtttatg ttgcacatct tgaagtctgt aaatctaagc cccaacgtgg taatccggga 300
 gaatcatggt gcaatacaac ctttttatgg tgcaagactg taatactcaa a 351

<210> 54629
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-G10

<400> 54629

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 gagctgtacg ccaacgaggt gcccagacc gcggagaact tccgcgcgct gtgcacgggc 180
 gagaagggcg tgggcaagtc cgggaagccg ctccactaca agggctccac cttccaccgc 240
 gtcacccccg agttcatgtg ccagggcggc gacttcaccc gcggcaacgg caccggcggc 300
 gagtccatct acggcgagaa gttccccgac gagaagttcg tgcgcaagca cacctgcccc 360
 ggggtgc 367

<210> 54630
 <211> 310
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-G12

<400> 54630

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 gcgcgtcact atcatgcccc aggagatcgc gtctcgctcg gagcatcacg ggccanaggg 120
 cttgagcgcc cgctcgtgctg ctgcgtgctt tagtggtact agaagtagat ggtggctttc 180
 gtttcgtggc ttccttatcc tgtaggagta atgttctaga tgtcttggct tcagtgaat 240
 ggactgtgtt tgctcatttc tgaaatztat caatggactt gtaaaaaaat ataagatgtg 300
 ccaacaccca 310

<210> 54631

<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-G3

<400> 54631

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aaactggagc tgggagccta tcgaaccatc ctgtatccgc tatatacagc ataccctgta 120
ttcccacagt gaaaaggatg cacctgggtcc ttctnngttc ccagtttggg ggaatgcacc 180
cttctacggt aagtaatcaa agcggctacg tgttcaatgc attgctgnnn cgcattctat 240
ctgctagtta gaaatcaaag cttgtcatac cgttcgtaaa ctgaggacaa actgannaaa 300
tggaatggcg gcatcaggga gggtgtattt tggtacgggc ttgccgaagg gtcaaaggct 360
agggtgtg 368

<210> 54632
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-E7

<400> 54632

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gccatgacct ctgtgttgct cctcgagctg ttcctatggt ggaatccatg gctgcgctgg 120
tctgatgga ccagctcatg gcgcattatg ccagtgatga gatgtttccg ctgaaccttg 180
ccctacaaga gccattggc tctgctagca gtgcatttga actgtcacca aacctatcat 240
aatgtttgtc gtggaacatg tcccagcttt ctttctatcg aaattctggt ctttgctaag 300
cagtttgcaa ttcggaacct ccataaaccc tcgactattg tacctagaga taaagtgaac 360
ggatatcaag atagaaatgc attaatgttt ttgtg 395

<210> 54633
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D4

<400> 54633

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tcatttggac tcggcactcg gcagggatgg ggatggggac ggaatggccg ccgacgcctg 180

cgcagcaaag gaaagcgggtg gtgagcgccg ggtcggcgct gaagctggta ctgttcgtga 240

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<210> 54634

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D5

<400> 54634

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gcagggatgc attctaagat gtgctggcaa tccctcgctc acctcctcaa gtatgacaac 120

tctacagac tacggcactc ctgaaaccgt gaagtttggga cgcatttgcc gaccactcct 180

gaactctgac cgaccaatct tctactcgct ttgccaatgc tgcttcatgg aatgtcccaa 240

atggtgcggc atgtaccgca acagctggag gaccaccgcc caacataact acacatggtc 300

aaccatgctg gacaacatct acctgaacta ctctacgcc cggtagccca aaccccgctg 360

ctggaacgac cctgaca 377

<210> 54635

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-D6

<400> 54635

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ggcaggtcca gattccagca gctctgagct atanaaaaaa cggcttgggg gcgagacgga 120

gagaggggta tttgcagtat aagtaccttt ggatcgaaga gcatcactcg aagatgcac 180

gaggactgtt cttcttcttc ctcaagctgt agcctgtggg aggagaggcc ggagaggcct 240
 cccatggagt tccccactc atcacttctt gttgggtccc tgctagctgt tcgttccttc 300
 agcaggtagc tagagatgat cttgctttaa atttgtgctg atctcttctt cgtcgtgtac 360
 gctcatatgc atggggcgac ggatttgtct ctgatcgttc ccatgccgcc tcttgtatct 420
 tgacttggat ctatatatca atgcaa 446

<210> 54636
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D7

<400> 54636

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 ggccccggac tctgcggcgt ctccagaagc cgaagcagct cccggcaccg cggcagaagc 180
 gcctcctgct gctgctccgg ctgcgccaga gatcacccca tccaaagctg acgcctgac 240
 gtcacgctat tattcactca catgtgatgc tgcggctgcy actcctaaac cttaaactta 300
 gaaatagctg gggattgggt ttgcattgca tcgtgttctt gccggtctag caagtgacta 360
 taagaataat ggaataaacg atgaccatt gtgtgtatga tttccattct gaaaaacaac 420
 acattcct 428

<210> 54637
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-E1

<400> 54637

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 atatttatag ttgctctaga tttgaagtta taggattatt tttaattatg tttaagtgtt 180
 aataatttga gttgaagtta taagatttgc tttgaatttt aagttaaagg atttgagata 240

tatggtttgg agttatatga ttatttgatg ggg

273

<210> 54638
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-E10

<400> 54638

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gcacaggatt atctcaaaaa gcagcaggat acggagatgg aacttatttc ggattccccg 120
atccaggacc attctaaaac taactagtgg cgcagctagt ggtgtttata cacagctgct 180
agcagcaaag attctcctct gtagcttaag cccctgcaga tgatttcaag ttccaacaat 240
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acttgtcagt tgacgacctt ttgtcattga gcctgtacct gtactggcag ctctgttgg 360
agtcattctg tttattttcg gacatctaca cggataaaca gtanngaata gttatggagc 420
acg 423

<210> 54639
<211> 219
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-E4

<400> 54639

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ccacgagcca atttgcgact tcgcaatgca aatcaagaaa tcgacgggca aatatttttc 120
tcttgcaaaa aaattgcagt gccatgccat ctcttaagac tattcacagc ggcttcatct 180
aaattttacc cctataccac ttttttatgt caaannana 219

<210> 54640
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-E5

<400> 54640

ctcctgctgt cccaactgag cggtaaggac atcaccgagc tcattgccgc gggcagggag 60
aagggggcctt cagtcccatg tgggtggcggg ggtgtcgctg ttgcggcagc ttcacctgct 120
gctggcggag ctgctcctac agctgacgca aagaaagaag agaaggtgga agagaaggaa 180
gaaagcgatg atgatatggg cttcagcctc ttcgactagg ctgcacagtc atcacagtat 240
tgttttcgggc agtgaaacca gagggaaaacc agagtcattgt ttagatttta accttgcttt 300
atgttggaag gtactgctac ttgtctttat atttggtaat tcagccgtaa gttgctatgc 360
tggttgggat ttactcgga accagagttt ttctatctta ta 402

<210> 54641

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-E6

<400> 54641

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cgccgcgcgt tgccgacttg tgtgcttcgg gtgcgtgcgt gtgtggtggg gtacttttca 120
cactatattg gaaaaagaag ctattatata tctttgactg aaaaaaagtg tcgttggtata 180
attatctttt ttttcgtgtc cgtgtatgca acccctcctc tcatagacc atagcgccaa 240
atagtcattc aatgaatatt ctatctgact ctttgtatac ctctctctta gtttaaacgg 300
gctatctatt ctttactc 318

<210> 54642

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D11

<400> 54642

cccacgcgtc cgggctgctg ctgtccttgg tgatagattc tactggtgga ttgagccagg 60
tggtgcaatt gttcttgcag tgtacacgat ttcaaactgg tctggaacag tgtgggaaaa 120

tgcagtatcg ctggtaggtg aatcagctcc tccagaaatg cttcagaagt tgacatatct 180
 ggctatcaga caccatcttc agattaagcg tgttgacacc gttcgagcat acacctttgg 240
 ggtgctttac tttgttgagg ttgacattga gcttcagag gacttgccac ttaaggaggc 300
 acacgccatt ggagaatctc tccaaatcaa gattgaggag ctacctgaag ttgagcgagc 360
 attcgttcac ctagatttcg aatgtgacca taagccggag cattcaattc ttaacaag 418

<210> 54643

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-B11

<400> 54643

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 gactacgaac cctttggtct ttgacaactc ttacttcaag gaacttctga gtggcgacaa 180
 ggagggcctt cttcagctcc caagtgacaa agccctgctg agcgaccctg tcttccgccc 240
 tcttgtggag aaatatgctg cagatgagaa ggcattcttt gatgactaca aagaggccca 300
 cctcaagctc tccgaactgg ggtatgctga tgcttaaag gtccatatcc tggagcggga 360
 cacaaact 368

<210> 54644

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-B2

<400> 54644

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 tcgacggcga cggccagatc aactacgagg agttcgtcaa ggttatgatg gccaaagtga 180
 gagcgggtccc cgtgaaataa gtatctatgg attgaagcga attatcaggc acacaagctg 240
 tactttgtca tgtccctttg agtacgcac agtggtcatgc aggtggtaat gtctttagt 300

ggctccgttta ggcggtgtag tcatgggaac gcgacatcag atacctgggt tcttttgatt 360
 gtgatgttat cttgcattat tgcacctgta ggatttggtg aagctcatat tttccagggg 420
 tttggatc 428

<210> 54645
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-B3
 <400> 54645

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 agcaagatgt actactctat atcaacgagg caaaagtctc tgggtgcgac accaatggac 120
 aatgtgacac aacttctgaa gataacatac tctcaaaagt ggactttcgg ccaagtggat 180
 tgcctgaagg ttgggtgaaa gaactagtgt acagaaaaac caaggaaggg ttgatcaaga 240
 gagatccgta ctacacggat cctgctagtt cctacacatt ccgcacgctg aaatctgcat 300
 tatccttctt aacttccaaa tgggttggtg atgataatgt gagtattgcc attctgtctc 360
 agtgtcagtg taatactcta ttaccttaca 390

<210> 54646
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-B5
 <400> 54646

cccacgcgtc cggcggatgg aggcacactc tggccctctc cgagaagaaa aatgtcttct 60
 cctggggggag gggcactagc ggacagctcg gcaacggtga aatagtcgac aggtgggtct 120
 taccocgtgc gcgagctctc agtgtctatg tcttcccctg cccctttag gaacacgcct 180
 gtgctgatct gatctgatct gacaactaac gtctcaccat cctgaaggaa cacacctgtc 240
 ctgtccaatg ccctgacctc aaatggctct gcctgcagaa acctaaagta ttccacggaa 300
 gcc 303

<210> 54647

<211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-B6

 <400> 54647

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 acaggatcatg gggcaagaag ctgattgtcc ataataggag agcatcgctc aatgactttg 120
 ataggttcaa agtcatgctg gcgaagatta agagggggcg tgctatcagg caagagctcg 180
 ccaagctgaa gaaggcgctc acggcttaag gaggctcttt ccgtgaatgt catgttagag 240
 tttttggtaa tgagttggat cagcaattcg attgagcgtt gtcaaagcca gaattaccaa 300
 tatgttcctt gtaaaccat ttcaaacttt atcaagcacg ggcgtgctca agatactttt 360
 gccatgaatg 370

<210> 54648
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-B9

 <400> 54648

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 aagttctttg ggggggtgga catagtggac tggctcctgg ttaacaagaa cgggcgcttc 120
 accggcgagg cttttgtagt cttcccaaca gccatgcagg cagagtttgc gctgcaccgc 180
 gacaggcaga acatggggcg gaggtatgtc gaggtgttca agtgcaagaa gcacgagtac 240
 tactgtgcaa tagccaatga ggtgaaccag ggcggttatt ttgagccgga gtaccgtcgt 300
 tccccgcctt ctccgaggcc taggaagccg tctgaaaata acggcagcat ggagtacac 359

<210> 54649
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-C1

 <400> 54649

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 gtgggctgct cttcaccgga gactgctccg gcgagctgaa agtgtggagg ggggcgcccc 120
 aggactagga ggcagtagct gatgtgcac aaatagtgtg gctgtagcct cattgaagaa 180
 taatagccac tgacgtgctc catcattgta ttcggttcca tgtaaattat ggctgctccc 240
 cctgatgatg taacacatac ggccaatttt gtgaggatgc aaccctggt atcatgttcc 300
 a 301

<210> 54650
 <211> 274
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-C2

<400> 54650

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 gacctctttc cgttgtcgct gcctcacggg ccatggcaac gcacgctacg tgtttggtggg 120
 aaatgtcgca ctgcagagag ttgactgaaa gtgtttctgc gtcgtctcga gacgcatttg 180
 ttgagacttc aaacttcgtg tcgcagactn taaatttcgt gtttcggact taaaactcta 240
 aacatcgtgt ttcagacttt aaacttaatg tttc 274

<210> 54651
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-C3

<400> 54651

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 nccttactaa cacatgttat ccaacaatga ttttattacc aaatatctta ctgctaaaag 120
 ttactctat accatatact acctcttcaa gacgaatttg ttgaaactaa aacctaagta 180
 ctaaaaaacta taaacttaaa tgcataaat aaaaaaacta aacactcatt taaaaacatt 240
 aaccactaac tttcttaaaa aaataataa 269

<210> 54652
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-C6

<400> 54652

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agattgtgtt cagtcgctac gcccgccac tgtgctctgc tgctcccatc tgtatccgtt 120
cactccatgg tacttgcaact ccacatctac gaatatacgt acgccatctt tctttgtctt 180
agcttttcga gcgtgggttg gtcatacaa ccaagattta cactggatgg cttcttaaata 240
actatctcgt gtacaatgga ccacacatgt cgaaactaca cttgctgtct aaagcccttg 300
ttgatttcta ccggaagcga tgtagtacac tgtacacgct gtaccactga tgatacgaaa 360
tgcgagtagg attactcaat tctttggcat cttgtggc 398

<210> 54653
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-C9

<400> 54653

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gtgctcatgg tgctggagaa cacggtatct ctgcattgga tcttcaacag tatatggaaa 120
caatgcaaca cgtcatgcaa aaccctcagt ttgtgtcaat ggcacagcgt cttgggaatg 180
cccttatgca tgatcctgct atgtccagta tgcttgagaa cttgaccagt ccagctcata 240
aggagcagct tgaggagagg atggcccgt tcaacgaaga tccatccttg aagccaattc 300
ttgatgagat agagaatggg ggtccatctg caatggtgaa gcattggaat gaccct 356

<210> 54654
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D10

54654 54655 54656

<400> 54654
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cttttacct gacggcaatg gcctataggt tactagcgct ggtgcaggga atgagaagtg 120
aacagagacc atgatttgca gtctacttct gttttatcgt gcaatacctc agcaaaccct 180
gcctacatga tgcgatcgaa accggagacg ttcctgggtc aagcttcgtt ccgtaaaata 240
aataaatccg aagcacttca aagctctaca tactctccct tgcttgtttg atacaagggc 300
ttgcgttctt gctgcatctc atccgagatg attgtaatcc caacaatgtg tagttaataa 360
aaattgtcgt tttccctgaa aatgttttaa cctgtaaaca tcgctctgta 410

<210> 54655
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H1

<400> 54655
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cttgccgagg gcatggacat ctacatgtac aaaggcgacc gggcgttctg cagcgaggag 120
tgccggtgcc ggcagatctt catggacgag gacgccatca gcagctgctg cggcaacggc 180
gcgggcgccg ccgccgccac cgtgcgcggc aggcggcgag tcaagacaag acaaggatgg 240
gaacgtgaat gggagacgta gcttaggtgg tgcaccagat gaccagatct tcttcatgga 300
aacttggatg gggagacgga gacaagacaa ggatgaagat gatgaacaca gtgtggaaat 360
gtctgccagc tcatcccccg tgggggtccc gtcgcatgcg cagcacagta atagtacgtg 420
cgt 423

<210> 54656
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-046-Q1-K1-H10

<400> 54656
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ggctcgccgc cgacgagctc agcgccctgcc tggctgctga aacagacggc accgcggacc 120
accagccgcc gccgatcgcg gtgggtctcct tcggaggccc caagaccgga aaccgcgcgt 180
tcgcagagcg gctgcagcgc gagcgcggtg tgaacgtctt gcgggtggtg aacgcgggcg 240
acgtggtgac gcgcgtgccg gcgccgatcg cgcgggaagg gtatgtgcac gcgggtggtg 300
ctgagcttag actgcacaac agcgactcgc cgtgcctgcg tcccgcgcg gccccagcgt 360
gctgccacga cctggaggcg tacctacacc ttctggatgg gttcgccggc tccgggcggc 420
cgttccgncc cgacgcgagc cg 442

<210> 54657
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H12

<400> 54657

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cgtgctcccg cgggccccgc ttcccgctc caccggcagc ctgagcgacg gtggacggcc 120
ccctagggct ttcgctggag gacgcggagg gccacgcccg tcgcttcttc atgtggggat 180
tcgcgtgect ccccttacta tgggccatca actgctgcta cttctggccc gtcctccgct 240
cgtcggctgc ctgctcgccc gtcggctatc gcccacccg cccctatgtt gtgcggtcgg 300
caattggctt caccatcttc tgcgttggtc tggtcacctg ggccacgacc ttcgtcgtca 360
gaagcgagcg gttatttgcg ccagtgtgga atgatcttgt gatgtacaat gtcgccgaca 420
agcttgcat ctctggattc atgg 444

<210> 54658
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H2

<400> 54658

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cgagatccag acctccgtgc gcctagtctt ccccgagag ctcgccaagc acgccgtctc 120

cgaggggaacc aaggccgtca ccaagttcac cagcaactga gcgcgctgcg ggatccgcgg 180
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agctagcttg cctgctctat aaatccggcg cgccggattg taatggctct cttagatttg 300
atgtccctgt tgtggaatat agttgtatct ctccgcttgc tattattctc attctttagg 360
aacttggaat tctggttaatt 380

<210> 54659

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H3

<400> 54659

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atacctgggt ataaaggagg aggggaatgt aaactcgaga acatgagaac actgtgtgtg 120
gcttgtcatt atgaggtcac cagaactcag cacaaggaac taaaagaaat aagaaagaag 180
gctaaagagc acttgaaaaa cgccttgaat aaacaaaagg ataaaccaag tgaagcaaca 240
gaagaactag atgacgaatc gttgctgata gctgtcccg gtagtgctta ctccttagga 300
tttctggca acggatctga tgaaaaggct gctgaatagg gcatgtttca ttaccttga 360
ttattgttca aaaagggcgc tgggtatttt tagctcgcgt cttttttttg gacatgttaa 420
atgcta 426

<210> 54660

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H5

<400> 54660

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aggctctgat tgtgggttgg gtcagatagg tactgtacaa actaagtgtg tgcccaaagt 120
gtctcaagcg gagtggtatg tgcttagcaa gttctatcta tcatagtgtt atacgctaac 180
aaacacttga aaaacgcctt gaataaagca gaaagataaa ccaagtgaag caacagaaca 240

actaaatga

249

<210> 54661
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H7

<400> 54661

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ggggatcgag cgcgagtctg aaagcctact cgттаacttg acaacactgt gagtggttag 120
tcatcatgac gtcaccagaa ctctgcacaa ggagctaaaa gatattaccg agcaggctaa 180
tgatcacctt gatgaacgcc ctgcttaatc ataaggatca acctagtgat gtcaccagat 240
gacgtacatg acgaatacgc gctgatagct gtccttggtg gtgcctactc cttacgaatt 300
cctgacaacg gatctgattt aaaggctgct atataaggca tgattcattt accttgatta 360
tt 362

<210> 54662
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H8

<400> 54662

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gtgagggcat gacatgtgcc ttaccagtg gcaaggatcat tctggactct gcaattgtga 120
caacagtggt cctgctcagc cttaccgcat acactttctg ggccgcgaat aggggcaaag 180
acttcagctt tctgggtcct ttctgttcg ccgacctcat agtgctgctt gtgttccac 240
tcatccagat tctgttacca ctgcgcatgc tgtcccagat gatctacgga ggtctggcgt 300
cgatcatctt cagcggacac atcgtctacg a 331

<210> 54663
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H9

<400> 54663

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ccctggggcg agcccttcag gccttctatg acgctgtacc gatggctggt gaccatggag 180
gcgacggctg agcatgatga tgaggactct ttgcgagagt ggtggcacct ggtgtgcgtc 240
tgcacgaact 250

<210> 54664

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-A1

<400> 54664

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ggagcaactg angaagaact atgaggagac aaaagagcta ctcccttcagg ttgctgggtca 120
caaggacgtc cttgaagggtg atccttatct gaagcagcgt ctgcggctgc gtgagtccta 180
catcaccact ctgaacgtgt gccaggccta caccctgaag cggatacgcg acccgagctt 240
ccaggtgagc ccgcagccgc ccctgtccaa ggagttcacc gacgagagtc agccggcgga 300
gctggtgcag ctgaaccagc agagcgagta cgctccaggc ctggaggaca ccctcatcct 360
gaccatg 367

<210> 54665

<211> 68

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-A12

<400> 54665

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cgacctga 68

<210> 54666
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A2

<400> 54666

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cgtgatgaag cggaaccat tgatagtatg aagagggtga tggaagaaaa taacaacctt 120
cttcgtcaac tataaagctt caattgaaga aaagtgcctc catcttaagt ttgggtgact 180
actataggac atgcagcctt gtggtagcta tagtagtagt agatatttat agttgctcta 240
gatttgaagt tataggatta tttttaatta tgtttaatgt ttaataattt gagttgaagt 300
tataagattt gctttgaatt ttaagttaaa ggatttgaga tatatgggtt ggagttatat 360
gattatttga tgg 373

<210> 54667
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A3

<400> 54667

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agcaacatcc tcttcatcca gaatctgcc aaccagacca cgagcatgat gctccagatc 120
ctgttccagc agtaccctgg ctcccgga gtacggatga tcgaagctaa accaggcatc 180
gcttttgtgg agttcgagga cgacggccag tccatggctg cgatgcaggc tctccaaggc 240
ttcaagatca ccccgagaa ccccatggct atatcctatg ccaaaaaatg agaaccctag 300
gggactccct gtaccggctt tgttattgac acaatccaat gtggattatg acttaaatta 360
gtttaagttg cactctaata cacctcaata atag 394

<210> 54668
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-A4

<400> 54668

cccacgcgtn cggttggtga gatggatctg ttggatcgga atattaagac ggagacgggg 60
gagacgcgca atgaacagga gcgtaaggag gaggtggaag cggaggcggt ggagaggaag 120
acccatgagc cgccgcagca aggccagggc ctcagcctct cactcgccaa cggcagtggc 180
aggctctggaa tgttgccgat gtcaaacatg tcagcttata cttcacagct tacaattt 238

<210> 54669
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A5

<400> 54669

gaagaagata ggtgttcaac gtgggatcca atgttgccctt cttgttgtca ctggactgcg 60
ttctgcaagg tttgcggtta gatcaggatg taatggatgc tccgtttact tcaaaacttg 120
cttaatttta tgtcttgtaa taatattcga aatgatgtta aattttaaca tttgttgaag 180
tgtttagggc atcatgatag atgatacatc tactatctat cattgtaaca tgcttgttgt 240
aatgtgtatt tcatgcctca tca 263

<210> 54670
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A7

<400> 54670

attcgaggca cgacccacgc gtgcatcac acatccgtgc tcaaactttt taaatttatg 60
agccatacaa gaatctatga gcctcagtta acaccaatgt gatggtgaga caaaaatcaa 120
agtaattcat ggtgcatgcc acaaggactc tctcataggt gatcctgata ttactcacct 180
tgtggagaaa cgctacctct acaagaccac tctatacatt ttccattcct acacccttta 240
aatcata 247

<210> 54671
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A9

<400> 54671

aagaggaaca acaactggct cccacctcca tgggcacttg ctgcaatggc tatccgggga 60
 ttcaacgagt ttatgacatt actgaggaat ccgctttacc tgtttgccat atttgtgatt 120
 tatcttggtg gaaaagccct ttgggtgcaa tcagaaattg gcagggaatt ccaacatgga 180
 tttcttctg ccatcctttc actgtcgacg aaatttggtc ccactgtaat gaacatcctg 240
 aagagattag ctgacgcggg tcaagaacct gcagcagccc ccgagaggca aagagagatg 300
 gagctccaac caaaatccac caggaacggt tccttataca agaatgtgac atcgggaggg 360
 tcatctatcg taaccac 377

<210> 54672
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G9

<400> 54672

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 cgcctatgag gatatcaaga aagctattaa ggctgcttcc gaggggtccac tcaaggggat 120
 catgggttat gtggaagagg atctgggttc taccgacttc cttggtgaca gcaggtcgag 180
 catcttcgac gccaaaggcc ggatcgctct gaacgaccac ttcgtcaagc tcgtctcgtg 240
 gtacgacaac gagtggggct acagcaaccg cgtcgtcgac ctgatccgcc acatgttcaa 300
 gaccagtag gggtttttcc cccctgcttc tcatggatgg ttgctgcttg tgtatgccga 360
 gaataaatgt ggatggcgcg tgcctctggg tcgccagggt catgctgagt ctggacatgt 420
 tttgcacttt t 431

<210> 54673
 <211> 410
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F12

<400> 54673

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tccctgtccg gacgttcact catgaggtgg tgacgctttg gtatagagcg cctgaaatcc 120

ttctcgggtgc aaggcattat tccacccctg ttgatgtgtg gtcagttggt tgcattttcg 180

ctgaaatggt gaaccagaag gcgctttttc ctggcgactc tgagatcgat gagctgttta 240

agatcttcag aattttgggc actccaacta aagaacatg gccaggcggt acttcgttgc 300

ccgattacaa gtcaactttc ccaaagtggc cacctgtgga tcttgcaacg gtgggtcccg 360

cactcgaacc ggcgggaatc gatctcctat ctaagatgct gcgtctagat 410

<210> 54674

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-046-Q1-K1-F2

<400> 54674

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gagcnctatg cgtctctaaa gaccagcgca gaagccaaga aagcaagttc gaccagaacc 120

ctctggcgtc cataagttaa cattcatggc actcaaggcc aagaagctgt tcttaccatg 180

cgacgatact atgcacgcct gcaagaagga ctgctgggtc gtcacggct gcaaggtgta 240

tgatgtgacc aagttcttgg aagaccaccc tgtatgagag gatgtgctta tccatgcatc 300

agcctctggg gatgccacgg aagcattcta agaggtgaga cacagcactt taaccgtcag 360

catgatggac agctacttga ttggaagcca taaagactat gttcgtccaa tg 412

<210> 54675

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F4

<400> 54675

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 cggctctaaa gacaaggcag tcgtcaagaa agggagtttg accaagagcc tgtggtgtcc 120
 gtcggctgcc atccatggca ggggaggcca agaagctctt cttegcaccc gaggttactc 180
 tccacgccta caggaaggac tgctgggtcg tcatcggcgg caaggtgtat gatgtgacca 240
 agttcttga ggaccaccct gtgggagagg atgtgcttct ccatgcatca gcctctgggg 300
 atgccaacga agcattcgaa gaggttggac acaacacttt agcccgacg atgat 355

<210> 54676
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F6

<400> 54676

cccacgcgtc cgccaagatt taccctcccc tcggtgcctg atacctgtat ggtgcgcacg 60
 cgtctctaaa gacaaggcag tcgtcaagaa agggagtttg accaagagcc tgtggtgtcc 120
 gtcggctgcc attcatggca ggggaggcca agaagctctt cttegcaccc gaggttactc 180
 tccacgcctt caggaaggac tgctgggtcg tcatcggcgg caaggtgtat gatgtgacca 240
 agttcttga ggaccaccct ggggagagg atgtgcttct ccatgcatca gcctctgggg 300
 atgccacgga agcattcgaa gaggtgggac acagc 335

<210> 54677
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G1

<400> 54677

cggacgcgtg ggtacggatc cgccctcaac atccgcaagg atctcgatgc ccaaattcctg 60
 tccaggtgcc aaaggcccc tggtgctttg ccgtcatctc tgcttgata cgaggcactg 120
 acaggttctt tggatgattt tggatttgaa gattatcctt aacatgcctc atgattctga 180
 cagtttccgt caacctgaca tgcaccatgg aatggagggt cgccttggtt tgtccaaggg 240
 acctatctgt cctagcttca attgaggcag taatgtaatt ctgctgcaag ttcacctctc 300

agtccagtac ttcagtcaat agaccatatt aagatggtga aatatgaaaa ctggtagctt 360
gcatctgttc aatgttatgt tttaatcaac gctgaattta 400

<210> 54678
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G10

<400> 54678

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gtcccccatac agaggggaac cactgattct gttccttagg catgacttgg gaggccatat 120
gaagtatgtg cagaaaggct gttccttttg aggttgatgt tgtcatcttt taactaaggc 180
catttctatc atcctgaatt caagagatta ttgagaaaat cttccaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaataa catcgcgagc tttaaaaata tcaa 284

<210> 54679
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G11

<400> 54679

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aggagggagg acaagaagaa gccgatggcg gttgtgagcg gcagcggcgg gaggctgaac 120
ccctgggcgg agcccttcgt tccttcggg gcgcggtacc gcggcctgcg gaccatggag 180
gcgacgcggg agcatgaggt ggaggacttc tccccgagt ggtggcgcct ggtgtccgcc 240
tccccggcct tccgcgaccg ctggctgcgc gactacggcg cgctcggcct actcgacgcc 300
gaggacgacc tggacgacga cgtcgacagc ttcctaccg acgacttctt ctgcccccg 360
gccccgcgcc acgagagcga gcgggaggac gccgtgggca ggatggcggg ccgagggctt 420
gaggtggcgg cggtgggc 438

<210> 54680
<211> 435

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-G12

 <400> 54680

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 gctgagcctc ggcagcttcc tcttggtcta gagcctcgat atgttccgcc ggccttagat 120
 catcatcatg tgccagagct tcgacatgcc ccacctgcat attatcgcac tttgggtcca 180
 tctggtgatt catactatcg gtctgttgag aatctggtgc ctgagcgata tgcagacaga 240
 accatggctg acttgaccac tagagatcca attattaggg atcacacagc actaccaggg 300
 gaggcacttg ctcgagcaga ccgcttggat gatctctacc gttctgatcg tgtggaggaa 360
 ctctaccgtt ctgatcgact tggtaacctg gcttgtggac cgcctcatcc agcctatatt 420
 acagctgctt atgag 435

<210> 54681
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-G2

 <400> 54681

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 gggtcattga cagcgtagca accatttgta cataggctca tgggcagtcg aatctgcatt 120
 ggtgaagaac ttgaggacct tttgatctag cttgtttatt tctctagttt ttgcgtcttg 180
 atattgtggc tagtttgggg cttcgggtct ggtgggttgt ctagcccatc agaacgcgta 240
 atgggtattg gtcttccagt atgttttcag cgtaatttg gctaatttcc ccgcttggct 300
 tgtacaacaa attttatcag tactgactac catgagttgt actgctctat atgctgcttt 360
 ccactc 366

<210> 54682
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-G3

<400> 54682

atcgggcttc ctaggcccg gctgacaccc atgggagccc cagctgacgc atatccatac 60
tactacatgc cacagcatca ggtgcctggt cctgggatgg tttatggcgc ccagcaaggc 120
caccggtga cgtatctgtg gcaggatcct cacgaacagc aggagcaagc tcctgaagag 180
cagcactctc tgcataaaag ggactgagga tgctgctcaa gctatcacct gatttttcag 240
agctctcatt ttaggttctc taaactgcag gttttcggtg gctaataatc gtgggtatca 300
aactgaaaca ggtaggggtg agcatcatgg tagtttgatt tctgctgtgg tgtagttgg 360
agggataatg attagcggct agtggattaa agttacca 399

<210> 54683

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-046-Q1-K1-G4

<400> 54683

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ttactggggg tcatgttctg ctgaaacagc tgcaacgttc tcgaatttta ttgcccttaa 120
gcacgattgg tttgggatta tccaatcaaa gaactgttct gcacaccttc agagcagaaa 180
caggcgtcat gttgtggggg gagggcacia gagcagtagt gtcggccaat gcagcaggaa 240
accacgcgtc gtttgggtct ttgggtcgcg agcttggaag gcataatcaa ttgttcttta 300
tggtgtgatc gattctttcg gaacggaggc atagaataat tcctaagccg gttgnttctc 360
tgatt 365

<210> 54684

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G5

<400> 54684

cccacgcgtc cgctcaacca tcacttcaga atccaggaca agggcttcgg catcacctcg 60

<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-G8

<400> 54687

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ccataccgcg ttcgccgctc catttgatcg aattcccgat ggcgcccaag gccgacaaga 120
agcccgcgga gaataagccg acggaggaga aggccgcgaa gaagcccagg gcgcagaagc 180
gcgtgccggg caaggagggc cgcgagcaga aggggaagac gaaggcccag agaaaccgcg 240
ctgacgtaca cgatctacat cttcaacgtg ctcaagcagg tgcacccgga catagg 296

<210> 54688
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F11

<400> 54688

gttataaaag gttggaagaa gataatggtg tctcacaaaa ctttgccaag tgggggtaag 60
cgggagatag ctaaattgggt aatgcatcag tatcaccttg gaaaagagga agatgaaaag 120
gacggggagc ttgtagtatc taaaatcttc ttccagttgg caaataagag tatggaaatt 180
tctgaaacag aaactgcttg tgaagaacct gaagcacctg cttcagtgat tgggtccgaaa 240
actccaaaga caatcacacc gcagccacgt catcctaaaa gtagtccatg tgaaactcag 300
cagaatattt ccattgtgca ggatcagcta ctactggaca gcgaaagcga gcctaccatg 360
cctattgtta gtctggagga tgatgctatg aacctgcat ggtgtgc 407

<210> 54689
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D5

<400> 54689

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cagagactga agaaaatgct accgcggacc agcctgcccc cctgagcctc gaggagaatg 120
 tttctcaaac cgggtgtgaaa aaaccaaccc cggtgaatcc agcaaagaag cccagagga 180
 agtcaactccc cagattgcca tctgaagaaa ccggtccgct tgatgccacc tcaaggcagc 240
 taataaagag cgccaagctg gatgcagtta gtgctctgga gacaggatca gctacaggac 300
 aggtacaact acaaggaagt gagacggaaa cagattctgg tcaggggcca gttgaagc 358

<210> 54690

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D7

<400> 54690

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 agattttgca atatacttat cagctaagat tcatgtagtt ctcttataat gctatataat 180
 tagcacaata cagtgcactc agtttattat ttctgatga aaagtgagtg atatagccac 240
 tttatttgga gggtttttaca caagatagca tgtaactgaa atactaagat agtatgaatc 300
 aataaatgca catgctgaat tggcttcgct ggtagttttt ggctacaaac agataaggca 360
 acaaattttc tgagacagta ccttagcaac ttgcatgat 399

<210> 54691

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D8

<400> 54691

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 gacaagggac ttaccgtcct acggagatca atatgtccat cttaatgtca gcatccgcga 120
 agattttaacg tgtagacagc ggtagctgat cgaggaatta cggaaagacg agcaaggata 180
 tcaccacaat gacgccaagg cagcagctgg agcatcaccg ggacagccgg tcttaggagc 240
 tc 242

<210> 54692
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-E1

 <400> 54692

 aaaaaaaaaa aaaaacataa aaaaataaaa ttaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 tggtaacatg aaaaaaaaaa aaaaaaaaaa aaataaaaaa aataaaaaca taaataaaaa 120
 aaaaaaaaaa ggggatgccg ttttaaaggt tccaagttaa cattcatgta cttgcaacat 180
 aatacttttt aaataagcac actaaaattc aattaattga ccatttttta aaaaaaagtg 240
 aattgtaaaa accctttatt tccaatttt aacaccttat aacaaaatac ccattttcca 300
 agatggcata aaaccaaaaa ggccc 325

<210> 54693
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-E10

 <400> 54693

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 aggaaaataa aaataataaa aaaaaaaaaa ataataaaa aaaaaaaata taaaataaaa 120
 aaaaaaataa aaaatttaac ttataacaac tctaaaaatg gatttggtta atcatgatcc 180
 atgacgaaaa tgatctaact tgataaataa aaagcttgct cttttatata ttatgattta 240
 acattttact aaaggtactt tcaaatttgt aacatgttga aattgtgatg aatctctaag 300
 atcacttgca tattagcggt gatgaattca gctctcattc aatcgtcaca gttgaa 356

<210> 54694
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-E11

 <400> 54694

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gttgagaacc tgggtctgggg agagctgaac cggtagcagg actctgcagt tcgctcagca 120
taactaaaca ccagcaaaaa aaaaaaaaaa acttttctgaa catacgtgta tgttgtagtt 180
cctccgacga atgtaacttc caaatataaa aaaaaagtgt agggaaaata acgaaggctc 240
gacacggcat gcccgtatatt tcctatggct ggcgataata ttgagatccc tgaaatgggt 300
ctatgaaaaa taaacaaagg ccctgctgat tggcaaaaca aaacagaacc catggatcta 360
cgagaagtaa acattgaaaa gttttacatc aaacctt 397

<210> 54695

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E12

<400> 54695

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gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggaagaaaaa 120
aataaaaaaga aaataaaaat aaaaaacaaa tatagaaatg agataagata aagaaaagaa 180
gacaggaagg aaatgatcta tgtcgataga tgaaaagctt gctgtctgag aaaacctggt 240
tgaagattat actaaaggta cttcaaaata tgccacatgt tgaaattggg atgagtgtaa 300
aggggcactt acatattagc gttg 324

<210> 54696

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E2

<400> 54696

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ccccaaggaa aggtgggtga ctttgtagt gtaaaaacca gaagttttga atctatgtat 120
gttcattaat tttgacaaga actcttatca ttatgaaatg aataaaaggg aaaatgatgt 180
gttgtttgaa aaaaaaaaaa tatgacaata taacacaaac cagaacgaca agtataatta 240

ctacaaaaaa aactttctaa ttgaacgatac tctgacatac tatatatgag caacagatgt 300
atgtccgaag ctt 313

<210> 54697
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E3

<400> 54697

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tactatatatt caagaagatc caattgaacc aaaaactgga ataaaatttc caacatttct 120
ggaagacgac tccagtccat ctgcagcggg ccttggtggg atagggttca aaggcatgag 180
agtgatgagg gtcaaaaatc tgaacctcta cgcttttggg ttatatatgc aaccgacttc 240
tatccgtgag aagctgggtc ctaagtatgc ttcatttcca actgacaagc tgatggagaa 300
ccctgatttc tatagtgatc ttctcaggta tattgatgta tcattttcat catatttctc 360
agcttctttt gcttaccctt aggttccatt tgtaaaggag atttttgaat ct 412

<210> 54698
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E5

<400> 54698

ccggcccga acgaccgact cgacccactc gatcaccac tacgtagacg gacaacgtgc 60
ctcaacttgt gctccacttt gtgtgcctag ggctatagtt caccaaaaag cgataaaccc 120
gctaactggc atcaaactctg caacattgct ggaatacgac tgcattccat ctacatccat 180
ccttggttag ataggatgga aaggcatcat agtgatgagg ctcaaaaatc tgaacctgta 240
cgtaacggg atatatatgc aagcgacttc tatccatcag aagctcgggc ctaagaatgc 300
tgcattcgca actgacaagc tgatggacaa ccctgaatcg catagtgatc ttttcagcat 360
attg 364

<210> 54699

<211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-E8

 <400> 54699

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 cgaatgtaaa gaggagctga gggccatgga agcggagaag gcggaaatcg accggactgc 120
 ggcggtctcg atgcatcgcc agctgtggtg cgaactgacg tacctggtga tccaaacagc 180
 cggattcatg cagatcaact tctgggagct gtattgggac gtgatggagc ccatctgctt 240
 ctacgtcacg tgacatgtac ttcattgagcg gatacgcctt cttactccgc accaagaagg 300
 aaccgtacgt cg 312

<210> 54700
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-046-Q1-K1-D3

 <400> 54700

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 atcatgttcg gcatcgccag caccttcgtc ggcctctccg agggcatggc caagtacggc 120
 ttctctgccc tagccaccgc ccttgctgcc tttgccggta tgtatgcccg ggcaagggtta 180
 accataaacc ctgacaaggt ttaccggctg gctatgacaa aactcaatac atctgctgca 240
 atccttgaag ttatgggtgc gcccctaact ggtactgatg tcagagcata tgttatgtct 300
 ggaggaagcc cgaaacctga agacttcaaa ttttaagcttg gcagtaaacg gtgctntctc 360
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 aagggacagt atg 433

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 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<400> 54703

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gctactgatg atgctttttac tgtatttttac tacttttagtt tgctcgacaa actattgtga 180

tgatggataa agtgtgttgt gatggtgg 208

<210> 54704

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B7

<400> 54704

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gatgatcgac ataatcaggg gaccaaaagg gatggacctg acgcaggaat aaactacaga 120

gaagatgaag agggattaca aaccagagcg gatgatgcta tgactgagat tatactacct 180

ggactttatc tcgtacttct ggtctagtag atgccatcat cggttgctgg actgctaagt 240

ggactatagt gcattgatgg tctccacgct atgc 274

<210> 54705

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B8

<400> 54705

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agagcaacta gatgaggagc cggagaggtg gagcaaagta acagtgatag agcaggcggc 180

caaatgacag accgaatggg caaaacatct gatggctgaa cttaaaaatt ttagacttgg 240

acatttgctg gagatgggac tgggatccca atctcccatt cagaaatttg tatgaattca 300

ggattcctaa cagctgcaaa atggtggaca tggttaaatca tagaattccc agcacaacca 360

tcggacagaa ttgggctgat tttattcact attgtgaatt gatcatgtgt ttttactgat 420

<210> 54706
 <211> 422
 <212> DNA
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 <223> Clone ID: LIB3088-046-Q1-K1-B9

 <400> 54706

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 gataacatct ttagtcgtcc agagttggca atgtttgtct gattaacggt acctcatggt 180
 gcagctgctg aagcgttaca ctggatttag gaccaatcct aaggctgcag catgccaatt 240
 aatccatcaa gatcctatat tgtgaaggac aaatgacaat cctagcgcgc tgtcatcttt 300
 ttatgaatat tacgcgttgg gcatttaccg tgttttaaaa ctttgtatta cacatggatg 360
 ttgtattatg tgggtgtggac aatggaacgt tgcaagctga cctgaacctg attccttact 420
 gg 422

<210> 54707
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-C1

 <400> 54707

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 gaccatcaac tccaaaaaat tattagtaat gtctttacta caagaatcac cctccatgtc 180
 catgcataaa ctatcaacaa ccacacctca aaggcaagtt cttcaaatt tatacccgta 240
 caatctaaca cttacttaat accaacttaa atattatata aaaaatataa caaatttatt 300
 atgtacaaca ggtttctaga gcattagcct accatgcatg tcaagaaaac acaccagagt 360
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 accacatcat gct 433

<210> 54708
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C10

<400> 54708

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gcaacaggca atttttctgt ttcataatca actgggtctg atatgtctca taccaactaa 180
tggccgtgag aatgttattt aggcttatat aagttataca gaagatattt cgttatgata 240
atgcacaaaa gttatgggtgt gcaatgaaag gtgcaaatg tgttttccac cctggatagg 300
ggtcgtggat ttctaagtct tgacgagggtg taccaggcat taatcaaact tggtttctcg 360
gtggattcac caggcttcta tacttggttg gagagctttg acaagagcaa gaaaggcatg 420
attcaattgg atgagtt 437

<210> 54709
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C2

<400> 54709

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tcatacagtt tgagatgagg acactatgta tactgtttga gacgaggaca ttatgtatac 180
tactctagaa ggctaccgaa accaaatatt gcactctgttt attaaaagct tgtacttcta 240
aaaaaaaaa ttagataaaa aaaggactgg aatacc 276

<210> 54710
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C3

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ggacttgat tgctttctgc cttatggcac ctgtagtagt gaactgatga aggaagttca 180
tgccggactct gaagctttgt tggcttagaa tggtaatttt gctgtattct atttcacagg 240

<210> 54711
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C4

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acatgaaaat aaacgctgca agaattgtaca gattgaatat tgacgatttt ggctctgaaa 180
attaggacac aaacctggaa tggcatgctc taatttgtaa cccatgggat attgtatttg 240
tatgccaaata ttctctcaaa cgtaaacgaa attgtaaatt catggccaca ttttaciaaac 300
ctgtgacggt ataaaccctt gtgttaccba aa 332

<210> 54712
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C8

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aaaaaaaaaa aaaaaaaaaa tacaaaaaaa taaaatccaa aaaaaatctc atgaacatac 180
aaaattcatt agctaacatt ataagaaacc catatcatac caaccacaca ta 232

<210> 54713
<211> 415
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C9

<400> 54713

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 gtcaaagtgc ctgcatgaga gtcacagagc tgagctggcg ctgatgggtg agagggggcaa 180
 gcgtgcacac atcgaagccc tctactccca cgggttctgt ttcttgggga agtacatcgc 240
 gagaaagatc gtgcagggct attacatatg acgattggcc gctggaatgt tagcatgggt 300
 gcacggaaca atgagctgca tggactgtaa tacagtagct atatatgtcc aaccgcctgt 360
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<210> 54714

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D1

<400> 54714

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 atgaacatga tcctagctta aattctcagt catgccacta ctacactaat cactctggat 180
 gcccatgcgt aaactattgg caaccacatt tcaacggcaa gactgtttaa acctataccc 240
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<210> 54715

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B4

<400> 54715

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ccaaatccaa tcagatacaa ctagataaaa gaaccgaaac agtaaaggca cagtcacatt 180
 tatagaccaa gcttccaaat gacagaccga atgggcaaaa catctgatgg ctgaactcaa 240
 aaattttata cttggacatt tgctgtagat ggactggta tcccaatctc tcattcacia 300
 atttgtatga attcaggatt tctaacagct gcaaaatggg ggacatgtta aatcatacaa 360
 ttcccaacac acccatctga cagaattggg ctgattttat tcactattgt caattcgatc 420
 atgtgtcttt actgatatac a 441

<210> 54716
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D11

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 acacagatgg tagtgtcaaa ttcagtagct atcgggccat cagcctgtat gcctaggtga 180
 tatgggacat caaggctagc cctgtcgtgt gaacgtgtag attgcgattg atcacctaac 240
 gtagcatgtt aggggtgctat tatagtatgg aggaatcttg acccactgag cttgacgccc 300
 acttagcaat gtaggcattg aacaagaggc acctatctcg atctacagcg ctgtgtatta 360
 cgaattgggtg cgactatgtt gctctatctt cctcaggctt atatcttatg aaacatgata 420
 cttttgatct gtgc 434

<210> 54717
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D12

<400> 54717
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 gagtgcttct gtgatggtaa ttcgtatgag agagtgcctt ctttggtggc acttcttcgt 120
 atgtagtatt aactcctgtc ttaatatgtc gcctgcttg tgcttttcat accatgtttg 180

ctcttttcagc tg

192

<210> 54718

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-046-Q1-K1-A10

<400> 54718

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cggcgctgtg cgtggtggcg gcggcgctgc tcgccgtgcg gtcggaggcc cacggcctgg 180
aggacttcgc aagcagcgac gcgacgccgg agatgcagac cttcttcaag cccgaggccg 240
cggcgctccc ggaggccctg gacgcgtcct ccatgcccgc cgccaccatg gccgcgaagc 300
cggaggccac gtcgatcccg accaccacca ccggcaccac ggcggcggcg gcgggcacct 360
tcgccgcggc aggcactact gctgcgtcgc cgccgcgcag gtccgtgtcc gtggccgncg 420
gcgtggcctg cggcgtggc 439

<210> 54719

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A11

<400> 54719

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gccaagcctt cccactgccc atcattccat cattcccaag gtaaaccctg ccacgttccg 180
cacatcatct gaatcatggt ctgcagtaaa gctcccacct gccagcccct tcgataactt 240
cctgaaggct gcctatcgca ccagcccga gctgtgatcg atttacctaa gaacaacctt 300
cttcacgagt gctaggctgc agtaccaaag catagggtac tagattatct aaaggaactt 360
atctatgacg ttgttttagt tgtagtagcg taactatgtg tatctatcta ctagatgtct 420
gtaacgtttg catatgtatc 440

<210> 54720
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A12

<400> 54720

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ggcaaccgcg caggggacta cgggagcgct gccacgacga cctaccataa ctacttgac 120
tgcagcgtaa gtagatcaac gtctacagat atcacgcgca tcgacgatcc aagaacaaca 180
gcagcaacat gaattgcata ggagacctca ccatcacatc atgaggaagc ctctgctgac 240
tcaatagcta aattactgac accatgcatg catgccatat cactatgaat ggtccagcgg 300
tacccttacc atgcgtgcct ttta 324

<210> 54721
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A2

<400> 54721

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cttgctgccc tgttccaagt aaaaaaaaaat ctgaaggagc tcaataaccg tggccgcccgg 180
cggacgtccg ccatggttga agcgccgtcc gtgaatcaat cataaatcag tgtgcttggt 240
tgggggggat gatcgtagct agaattctgcc ccttttcctc ctcccgtttc acctttttct 300
ctacgcttat ttctgccttc ctttcagaaa aaaagaactt ccttgaatgc gaagtttggt 360
atagtaatta tgaatagttt ccataaggga ggagatgggt gggccttctt catagccaac 420
ccaccaata gggggggg 438

<210> 54722
<211> 345
<212> DNA
<213> Zea mays

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ccggctgaac ccgtttaagg gcgggtgggc caaggacacg accagcattg ccgatgggcg 240
agacaggact tgcattgatg tgggtgaagcc caagaggagg aagttctgca tcggctaatt 300
cttttgtgaa atatcgatat ggaacgggta tcgcgtgtgt gacttatatt aaatcact 358

<210> 54725
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A8

<400> 54725

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aaaaagtagt ttccagaaaa aaaaaaagaa aaaaaaacac caatgcaacc tgaagaaaac 180
tgagaataaa ctaatgatgc aaagacatgg aaatggctca ccaggagtcc tagttacaga 240
tgcttactgg agattgcata cttgatcttg ttgttagtta tatggcattc ttagatatc 300
catgagtaac ttgaatctat ctgaagattc aactggactg accggaaaaa cctt 354

<210> 54726
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A9

<400> 54726

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ggtctggtct cagggagttg tcatgtcagt ccagtcagc agggtcagtc cttgggctgc 180
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gttgtcagga gttgggtttt gcctcctata cagcataaat gaattatatt gttttacctg 360

ttggtagaaa gaaccttgaa agatagggaa cgtgtcgttt tttgtcaaag cggttcctgt 420
gctgtataac atg 433

<210> 54727
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B1

<400> 54727

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gcatcaatgc tagggggtaa ataaaataac ggggaagagg agatgtcacg att 173

<210> 54728
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B10

<400> 54728

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atggaggaat caaacacagc ggccgagtga tgggaattca tgggtgcctaa tttgtttctt 180
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caagctgtga tattgttgta ctgtaagcct tactaattct tctgatgagg atacaatttg 360
ttttgttgac tacgatgcta aacagctaaa gttctctgcg cagattccag tgattc 416

<210> 54729
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B11

<400> 54729

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 acgacctaca tctcattgt cttcttctcc tggctcctcg tctctccgt cttcggctgc 360
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 ttccattgga agaaa 435

<210> 54730
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-B12

 <400> 54730

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 cccccgcaag aaggggctcc gtcgtcttgt tagcctacca cttgtgcaac ctattctgtg 240
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<210> 54731
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-B3

 <400> 54731

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<210> 54732
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-046-Q1-K1-A1
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<210> 54733
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-G2
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 aattagtgcg gggggcaaga aagccagagg attatttccg tattaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaacaaat aaaaaaaatt aacagatttt aaagcataaa gaataaagaa 300
 aaaaaacctt aaagggtgagg ccttttttaa aaattttgaa ttatgaaaga gcaatcggaa 360
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<210> 54734
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G3

<400> 54734

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 gggacggctg gccggatgtc gtcctgccgc tacgagctat gcatctgctt cgctgattca 120
 acatgggtaa gacacgctgt gtgccagtta gctcgcgtgc ttaagacca cacgaggcac 180
 ctaactgggc ctggactaac cctacaagat gagccatgct cggaacaaga tgaatacacc 240
 ttaccctgga tcatgccact ctctggcaat atgtgccaag aagagtggca tgatgagcac 300
 ccaggctgtc tacgatctac tgatcaatgc tca 333

<210> 54735
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G4

<400> 54735

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 ggcaattctt agaccgaact ccagccgaca aaacctttaa aacgtacctc taatagctca 120
 ctctttactc tgaataaac aaaataaact actcacacta tacactatca caaccttcaa 180
 tcctattatc attctacaac taactatcct ttttgtctaa catatataca attcaatcga 240
 cgcttcataa cacaattttg aattaccata acattaatcc ttcccaactt aataatcttt 300

<210> 54736
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-G5

<400> 54736

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 ctccgacctg cgcaagctcg cagtcaacct gattccgttc cctcgctgc acttctttat 120
 ggtcggcttt gcgccactca cctcgctggtg ctgcgagcag taccgtgctc tcaactgtccc 180
 tgagctaacc cagcagatgt gggatgccaa gaacatgatg tgtgctgctg acccgctca 240
 tggccgctat ctacacagcat ctgccatgtt ccgtggaaag atgagcacca aggaagtgga 300
 cgagcaaagt atcaatgtcc agaacaagaa ctgcctctac ttcgtggagt ggatccccaa 360
 caatgtgaag tccagtgttt gtgatatccc gccacgcggc ctctccatgg cctncacctt 420
 cattggca 428

<210> 54737
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G6

<400> 54737

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 gaccgatcct cgactcaatc tgtggtggag aagaccgtga aaccgagcct agttgagctc 120
 agcgaggacc ctgacgtcaa cgttagggac tactcagacc aggcactgca tgcgtgagac 180
 cagatgatgg tgtcaagcta actatccttt gcgtcaagta ttagagagt tcgatcgatg 240
 ctccatagtc caattttgga ttacctgtaa tttggccttt agatttgaag agttgtttgt 300
 gtctagcctc ggtaacagat aaaaacggac ggtcctgatc cccttgttcg tttgtgttaa 360
 ttaatgt 367

<210> 54738
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G7

<400> 54738

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 gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aataaaaaaaaa aaaaataaaa 120
 gcaataacac aatgaattaa gacccaaaaa aaatgcaaaa gggccatgct atttaccat 180
 caacaaaatc 190

<210> 54739
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-H1

<400> 54739

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 gtatgcngag tgggtgttgct caacagcgag gcgggttctg gcgttgaggt gggttccagc 120
 gtcgaggcgg tccccaatgg tgaggacca cgggatgcg gcggggcggt gctatctgcc 180
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 tgtcatggtg agaggcttca atctagccat cgttcacggc ggcgacaagg tggttcacca 300
 cgaattcgcg ttggtataga ggcattttct taccattctt ncttncttgg gtatctcttc 360
 ttcgtctggc aagagcgggc gctgataacg gggtagaaa caaagaaact gaagcanatg 420
 atgaatgttc ntttcattt 439

<210> 54740
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H10

<400> 54740

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gttcttgggtg cttgctactg acgggatttg ggacgtgctg ccgaacatgg aggtgggtgaa 120
gtctatgata tcagcgcttg acaccttcca aagcggcgag gcagctgatc taccgctcgg 180
tctgagcgtg gcgactcatg ctctcgacgt gcatggagga cgactgctcc gccatgtgcc 240
tgcacctgaa ccggtggggc tgacctgcta ccatcgagag catcagatca ctgatcactg 300
ctaccgacag acactatgtc gagcacacct ttcacaatca tcagtttccg tatgactctg 360
acgagcaact gtcccgtgt gatcgacgag gtgaccacgg t 401

<210> 54741

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H11

<400> 54741

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ccgaagaagc ctttcaacaa gcgccgccgc atcctggcca actggtccag gagagcctcc 120
tgcagctcgc tggccacggc cacctacctg cctcagctct tgggccccga ccacgccgtg 180
gccgaagggg acgagggcga ggaggacgac tacgacgacg acgtggagta cagccagggtg 240
ccggaccacg ggaagaacgt caaggacgcg ccgacatcgc cactggcgct ccctagactc 300
ggcgggtggcg gcagcatgca aaggaggaac ggccttgtga gcttcagatc tcctaggacc 360
ttctcgctgt ctgatctaca caatagcagt gctgatggta gagattagcg gccacagatt 420
tgcttgacgc tctggcctct cct 443

<210> 54742

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H12

<400> 54742

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gtctatacct gctcaaagag cgaggaccga tcgccagcac tcgctcccga tgccggacgc 120

ctatttctcaa gccccacaa ccgtaaactc gccttttgca taactgctcc aactatagcc 180
cataaagaac tggtagctgt tgccggacct tcgctactcg gtctacttct tg 232

<210> 54743
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H2

<400> 54743

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gccctcagct caccaccacg acccgaggga aagggagagg ggagtagggg acgaatggcg 120
agctctcagt gctgcgataa cccgccagcc ctgaaccggg cctgcgggaa gggcaaggctc 180
gtcgacagct tcggcgggct caaggcctac gtcgcgggcc ccgaggactc caaggccgcc 240
gtcgtectcg ttgccgacgt cttcggattc gaagcgccga ttctgaggaa catagccgac 300
aaagttgctt cgtcagggtta ctttgttggtg gtaccagatt tctttcatgg ggatccttat 360
gtacctgaga atgctgagaa gctcatacct gtgtggctga agtcacatac tccggaaaaa 420

<210> 54744
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H3

<400> 54744

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gctttttcat gggttgtagc atctgcgtgg cccactttt tacgtgactc ctaagtgttt 120
tcggctttgt ttacacttgt aactaacgaa gaaatcctgg gatgactggg tcgcaacttc 180
tttaaaagat gctattctta ttatggaaat ttaatcgag actgacaatt taaagtcacc 240
tc 242

<210> 54745
<211> 422
<212> DNA
<213> Zea mays

gcaacctttt taaaggttcc

320

<210> 54748
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E6

<400> 54748

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gggctttata atcctaagcc gtggacacca tgcaccttgc atgaactaac aagctttgaa 120
cactgatacg actattctca tcatctcctg cgctaacaag cacttcactg atcgtaatct 180
aagcatcttc ataggcatac tactactagt acttgctact gctgatttta cac 233

<210> 54749
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E7

<400> 54749

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ggtttctgga cgtgcaaagg acagtaatga tgtaaacaac acacatgaca tctctgataa 120
ttttgatgga atgctgaaca ttgatgtgcc tgaccatcca gatggaggtt ctaatgcctt 180
gaatgtcaac agtctaagga taccactcca aagtgttacg catccagaaa ctgttggttg 240
taagcagaac cctagcccaa agtctcatgc taataacccc gcaaggaaac tggcacgtaa 300
aatacttgag gacagcttgg taaagctgga tagcatgcct agcataaatt ctagaattat 360
cagatgggaa cttgggtcct cctggctaca acagttacag aaaaaggatt ctccagcatc 420
tgagaatgtt aagcggaatg caac 444

<210> 54750
<211> 115
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E8

<400> 54750

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ccccgtgatg gtcagcatcg gatgcagacc atttcacga tctcttgtga atttt 115

<210> 54751

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E9

<400> 54751

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atgggtacct gtactcactg aatgcttcca ctcttagcaa acagtgggaa tctatggggc 120
cctttctaca aaagaccgtg gcatcctttc gccttctccc cggtagagaa aactatgttc 180
ctccctacaa ggatccttgg agattttggt gaatggagat tcttcttcta gtcacattt 240
ctatcccttc agatgacttt atagcttcag gtattagacc atatttttca cgtcagatgt 300
ttactgagtg cctgtccttt caggttgaca gataaaattc agagacccaa attggtatca 360
gtttcaccca tcgtgatcgt tctgattaat aacagtccca gactaaagggt gtgtttgaaa 420
a 421

<210> 54752

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F1

<400> 54752

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agcgaccttc ggctacgggc cttgtacctg cgctacgacc tctagaccgt catcgctacc 120
aagcccaagg aggagaataa gagcctcaag gagctcaccg gcaagatctt caataccatc 180
gacgatcttg accatgccac ggagatcaag agcaccccat aggccgaaaa atacttggca 240
gcaaccaaag atgctcttgg cgatgttc 268

<210> 54753
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F11

<400> 54753

cgcgctgggg ctgccagaca tcggccagat tttcccggtg ctccgacccc cgttgggaagg 60
tgaccgattc ttcggtgttc atgaggggaag ctgtgaaatt gatgcatgaa gcaggctacg 120
agctgggcaa ccttgatgct acgctgatct tgcaaaaacc aaaaattagc ccattcaagg 180
agacaatccg atcgaatttg cgcgacctac ttggggcaga tccatctgtg gtcaatctga 240
aggccaagac gcacgagaaa gttgacagtc tacgggagaa catgagcata gctgctgata 300
ctgtagctct actgatgcca aagtgaaga gccacttggt ctggtcattc gatcatgcta 360
ctccgatgac gatggtatct catactgggtg attccttga 399

<210> 54754
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F12

<400> 54754

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gtacaagcgc tgtgcactga tgtgcatgct gtcattgtga ccgattcttt cataggtaca 120
tgaacatact gtcaccaata tgaactgtta catgcatgca gatgaagctt acatatgac 180
catgtacggg catactaatt gaaaggctga ctttattcaa gtcctccctc agatctaact 240
actgacatac ggactactaa ttctactgac tgccattgaa caatcagtat ctcaagacac 300
tga 303

<210> 54755
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F2

<400> 54755

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tggttaatctg gtgccattgt aaggacatat gagtaggggtt gttttgtgga tcgcaagttt 120
ctcttctgct actgttgctg ctacctttgc tgggtgttatt gctagggctg aataacttaag 180
ttaactatgc gctgacagtc tggactagca gtgttatgtg cgctgctgga ccttgcgcg 240
aatgctgtgg ccgatttggt cgttaatgtc aagaattgtg ttacagtgcg tgtaaaaaaa 300
aaatactatc aaaaaaaaaa aggtaggata g 331

<210> 54756
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F3

<400> 54756

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ctgcccattg tactggtacc cgtcattacc gtgttcacca caaaggaggt gaaaccagta 120
cgaacagtat tgctcaatc tttgcgtgga caagaggact tgcacacagg gcaaagcttg 180
atgacaatgc tagactactt gacttcaccc agaagcttga ggctgcctgc gttggagccg 240
tcgagtctgg gaagatgacc aaggaccttg cccttctcgt tcacggatct tcaaatatca 300
cgaggagcca ttacctgaac acggagcgag ttcattgacg ctgatgctga cgagc 355

<210> 54757
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-045-Q1-K1-F4

<400> 54757

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ggttagaata tcctatggaa cactcagcag gagccagtag aaagaaatca ggaaacagtg 180
agagattctc tagcagtctg ttagatggaa atactaaact ggtagccat gaagtttgta 240

ctaaaacact gtactatctt agtcggtttg accggatgaa agacgcttgg gacaaagatg 300
 caaatagcct accaaggagg gctgttggtg cgatggaaat gataggaaaa gcatctgcaa 360
 ttcgacatgc cgaaattgct gagttggaca aanagattaa tactctgaag gaagagattc 420
 tggcgctaga ggcagcttga gaaagggaaa tctcctgagt gaa 463

<210> 54758
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-F6

<400> 54758

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 gcattgctgc aactgtaaag accactgctg ccgtcacttc ccgttcatgg gagacatggc 180
 cagcaaggac gggagataga actgctacca cattggccgt cgcttgaga ctagtggcgt 240
 gtactatctc tctctatcta tc 262

<210> 54759
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-F7

<400> 54759

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 gaaaggatgg tgtctacatg tactttgaag acaatgctgg agtgattgtg aacccaaagg 120
 gagagatgaa aggttctgcc atcactgggc ccatcggaag ggagtgcgct gatctctggc 180
 ccaggattgc tagcgcggca aatgcgatcg tctaaaggaa gcagtttgtc gaagtttcat 240
 ttaaaatggg gacttttagaa gggagttctt agttagacga gcttttgatt gccctgaata 300
 tgtttccccg gctaatgctt gtgctgctgg accgtttcct gatagctttg ctttgatgac 360
 atcctncccc ttatcgataa agttgcgtag cctgac 396

<210> 54760
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-F8

 <400> 54760

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 cgctaaattt taaactacaa aataaaataa aatacacaaa aactcaaacc gacggcccaa 120
 catctcctat cgaacactca tccggatcct gtcaacaaac atcagtctac attgatatct 180
 tctctagcag tctgttacct ggaaattcta aactgcttag ccataaaccc tgtactaaaa 240
 cactgtacta tcttattcgg tttagaccga tttaagacgc ttgggacaaa gatgcatata 300
 ccctac 306

<210> 54761
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-F9

 <400> 54761

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 gaagtttttg gatgcgttgt cggctctgctg gcctattctg agatgttgag tggttatcct 240
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 ggatggctgg cacaatgtgg ctactatggc caactgcttt tgtatgtgta actgtcgaat 360
 tagattgact atgggtctaaa catcagttta gttgatattt cgttctctaa attcctcgat 420
 aactgctttt tac 433

<210> 54762
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-G10

<400> 54762

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ggcacaggac actcctgagc tgacagctat ggttcctgca tcaactccgtg tcaagagaga 120
atctgctctc cccaagccaa aaccaatggt gcagcagcag ccacaactat caacagtatc 180
catttcaaag ccctcgggtga ccctcataag aagcgacgct gggactcctt caacggcacc 240
caagccgaca agcatcaacg actcttacat ggcgtccttg gaagatatga cggagctaag 300
tgcacttgat gggtaactca cgtcgagcac atgcctgact gcacttaaca gctgaattca 360
tggaacacctg cgcattggaac ctttaa 386

<210> 54763

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E5

<400> 54763

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tcacctacac cgagcacgct cgccgcaaga ccgtcaccgc catggatgtt gcgtacgccc 180
tcaagcgcca gggccgcact ctgtacgggt tcgggtggtg agcgcattctc ttccctcgtc 240
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agttatcaga ttaaaatata tctgatgtgc ttcgttattg ggtggaatca tgtgtcccag 360
cagtgtggg aaatcgagat caagatgtat ctttctttgc agtaatgaaa tgttaaaatc 420
gagatcaaga tgt 433

<210> 54764

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G11

<400> 54764

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 cttgggtgcag accagcctgt tattctgcac atgcttgaca ttccgccagc agctgaagcc 180
 cttaatgggtg ttaagatgga gttgggtgat gctgcgtttc ctcttctgaa gggagttgtt 240
 gctacaactg atgttgtgga agcctgcact ggggtcaatg tggccgtcat ggctgggtgga 300
 ttccccagga aggagggaat ggaaaggaaa gatgttatgt cgaaaaatgt ttcaatctac 360
 aaatcccaag catctgccct tgaagcccat gcagctccca ac 402

<210> 54765

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D10

<400> 54765

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 caatccggag gctggcgagg aggggcggcg tgaagcgtat ctccgggctt atctacgagg 180
 aaacccgcgg cgtgctcaag atcttctctg agaatgtcat ccgcgacgcg gtcacctaca 240
 ccgagcacgc tcgccgcaag accgtcacgc ccatggatgt tgtgtacgcc ctcaagcgcc 300
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<210> 54766

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-045-Q1-K1-D2

<400> 54766

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 tggcgtccaa gaggtgctg ctggcgggcg tgtgcgtggt ggcgggggcg ctgctcgccg 180
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agaccttctt caagcccgag gccgcggcgc tcccggagge cctggacgcg tcttccatgc 300
 ccgcccncac catggccgcg aagccggagg ccacgtcgat cccgaccacc accaccggca 360
 ccacggcggc ggcggcgggc acctacgccg cggcaggcac tactgctgcg tc 412

<210> 54767
 <211> 214
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D3

<400> 54767

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 atcgctacc atcagcacct ggatactatg gactacctta tacacttctt aactatgata 180
 gggtagctac atctatgcat cctagggggc acaa 214

<210> 54768
 <211> 374
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-D4

<400> 54768

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 ggctccatgt tcccagggtt agcgacctgg ttctcaatgt agtgacattt gtgatggatc 180
 taggggtctc tttgtcgatt cagcccataa ataaagtgtg aaataaaagc cgcaagtggga 240
 ggcaggaacc tgctgattga gggaacagat ttgcctgtgt ttggttacat gaaatatctg 300
 tttcacagat gtgtacagca tgcgtgtaaa tgcttctgt gctgatactt ntgncttcga 360
 caaattgatt atgc 374

<210> 54769
 <211> 447
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-045-Q1-K1-D5

<400> 54769

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tacgagtgtg gtgagactgg ccactttgct cgtgagtgcc gtttgaggat tggttctgga 180
ggctctaggca gcggaaggcg ccgaagccgt aaccgtagcc gcagtcgcag tcccagatat 240
cgccggagtc caagttacgg tagaaggagt tacagtcctg cagcacgctc tccaaggcgt 300
cgtagcgtct caccagctcg tggacgcagc tatagcaggt caccacagca caagggtgca 360
cgtgaagaat ctccctatga taatggatac cgncgcagca ggagctagag ccagatcggt 420
gtatccgacg acgagcgtta tgtgaca 447

<210> 54770
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D6

<400> 54770

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gacgcggcga agctgcagga gctcgacgag atgaagcgca tgctgaagga gatggaggag 180
gaagccggcg tcctccgcca tatgcaggcc aaggctcgcca aggagatgca aggaggtgac 240
cctagtgcac ctacagctga tgcaaaagag catgtggatg cccgttctgt gtatgttgga 300
aatgtggatt atgcttgca cccagaagaa gtgcaacagc atttccaagc ttgtggaact 360
gtcaacaggg tcacaatctt gactgacaag tatggacagt caaaagggtt tgcttatgtg 420
gaatt 425

<210> 54771
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D7

<400> 54771

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ttcaaagaaa tcttcagggt ccaagtcata aggcgctcac agaactcagt gtgtcttctc 180
ctttatgttg tttaccgcca gactaattag agtgtcgtga agttttactt atctggtttt 240
tattcgaatt cgtgtctgga agatgaaagc ctgtgaatac acctttatag agccgtgtca 300
tcgatgctaa cattttttga agcagagttt tgaagtgaat gtgaagcgct gtgctgcctt 360
gattggcatt aacg 374

<210> 54772

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D8

<400> 54772

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caccagcgag gacgaggacg acgacggcgg ggtgccggcg cggcgacctg gtggtgcggc 180
agcgggagac ggggagcggtg gtggagggga agcccagta cgcggtggag gtgcggaacg 240
cgtgccggtg cgcgcagtc cgcgtgctgc tgcgctgcta ccggctcagc agcgtagatg 300
gcgtggaccc gcgcgctata cgggcccgtc gacggcgagc gctgcctgc 349

<210> 54773

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-045-Q1-K1-D9

<400> 54773

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gggaggaagg cgtcgcggca ttattcaaga gggcgcttca atagccttag cataaagctt 120

ataaaaagatg ggtctgtaaa actgggtagc gagtgagggt gtagcttgct gccgatgctc 180
 ttctcctcca cgcatgttag tctgcctctc gggcccgcta agcagaaacc cccttcggtt 240
 tgctaattgat tattttgtct gggatttagg tagttggagc ctccctgatt ggtttactcg 300
 tgtaattagt atcccttttc agtatcgctg aggagcatct gctgtaggat gcacgcctgc 360
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 tggtttggtg ttgacctcaa atg 443

<210> 54774
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-E1
 <400> 54774

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 gcaactaata cagatgctgt acgggaaatc tggaaacgac tgcatacat tccaacggaa 180
 catcctatag ttatccattg cagtgcagga atcggaagga ctggtactta catcacaatc 240
 catactacaa ttgagcgaat tcttcttgga gataaaagct cttacgatct tgccaaaact 300
 gtaaagaatt ttagatccca acgacctggg atgggccaaa cagaggaaca ataccagttc 360
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 tcacatgaga cggacagcaa 440

<210> 54775
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-E11
 <400> 54775

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 atctctggcc ctgtggtggc catggtctgg gagggcaaga gcgtcgtcac aactggccgc 180

aagatcattg gcgccaccaa cccctggct tctgagcccg gcaccatccg tggcgacttt 240
gctgtcgaca ttggcaggaa tgtcattcat ggaagtgaca gcattgagag tgctaataag 300
gagattgccc tgtggttccc cgagggccct gctgattggc agagcagcca gcaccctgg 360
atctacgaga aagtaacatg gaaagtttca catcaaacct tgagagccag aggaagcatg 420
tcaccatttg tgcttt 436

<210> 54776
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E12

<400> 54776

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tcagtcaaaa taaaaaattt aacttagaac aactctagaa atggatttgt tcaagcagga 180
gccaggaggg aaatgatcta acttgataga tgaaaggctt gctcttttag atattttgct 240
tcaagatttt actaaaggta cttccaaatt tgtcacaggt tgagatttg atgagtctcg 300
aggagcactt cgatattagc gttgaggagt ccagcgcaca aacaatcgcc acagttgaag 360
acgccgcgga cctcatcgac aagcttggtg ctggcaaagc gtagttctgt accttctcta 420

<210> 54777
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E3

<400> 54777

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caacagaccg tgctctacat gggtagcgct aggttaaga gtgttatata gatggatgtt 180
gcgtacgctc taaagcgcca ctgccagtac tctgtacggc ttgcctggct gatcgcatgt 240
cttaccttgt ctgcaaccga tgctacgcc ggctccacat gtaactgcgt cttgattggc 300

ttgatgtaga gagttatcag attccaatat ctgtgacgtg cttcgatatt gactggaatc 360
atgtgtgccca tcagagctgg gaaatcgtga tccagatgtc accatgttca gaaacatgag 420
atgttaaaat ctaaa 435

<210> 54778
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-E4

<400> 54778

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aagctttgtg cacgacaaga ctccctgagat catgcctgca gttaacaagt tcttcactga 180
ccctaagtga agcatgttga ttggcatact actactacta cttgctactg gggattttac 240
actttgctgg caactcaata tgttggggac atccatgacc tctaaaagta ctttgagcgc 300
ttggtgatga cttggtatat gtatgatggt ggatgagttt gatcgtccat gcttgatggt 360
catattcatc tgtcatctgg atttgccgca 390

<210> 54779
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-D1

<400> 54779

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tatccaacca tcgaaactat aggacttcat acgaccgcct ctttgaacag gtacgtagac 180
tggaaccga aagcgatagc ctaaagaaag atgccgccat ctacaacttt gtgcaagagc 240
gtcttcagaa gtcagcgcca taaaaatga tcatggagct gagtgcaatg gagctggagg 300
ctcaagaaat atcgttcgag gagcttctgg ctctgagaa ggaggacacc gactattggc 360
agcgcaacgg gaaggatgag aacagtctcg tgcaagtagg acacaatgcc cctgctactt 420

gggctcactg acgataggag acctaacatc

450

<210> 54780
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B4

<400> 54780

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caaggctggc ggccccagga agaagtcggt gtcgcggtcc gtcaaggccg ggctgcagat 180
ccccgtcggc cggatcgggc gctacctcaa gaagggggcg tacgcgcaga gcgtggggcac 240
cggcgccccc gactatctag ccgccgtgct tgagtacctc gacgacgacg tgctggagct 300
ggccgggaac gcgtcgaagg acaacaagaa gacgcgcacg gtgccgcgac acttgctcct 360
ggcgattcgt aacgacgttg agctcggcaa gctgctgtct ggcgtcacca 410

<210> 54781
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B5

<400> 54781

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gtacttggtg aaatcttaca ccatcctgta aataactggg ttgttgtaat aatatatgct 120
tttgctacgc 130

<210> 54782
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B6

<400> 54782

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cataaaaaatg ggtagaccag aattggcccg gagggccatt actgtggccg aggagagact 120
 gtcagatgac aagtggcccg aatactacga cactcgatct gggaggttca ttgggaagca 180
 atcccgatct tatcagacat ggactattgc tggttttctg acctcaaaaa tgttgctgga 240
 gaaccagag ctggcttcta ttctgacctg tgatgaggac cttgagctgc tcgaaggctg 300
 tgcttgctgc ctgtccaaga agaggacaag gtgctcacgg cgagcggcca agtcacatgc 360
 tgcgtgaaac tgtgaagctt attgtgttct tatactgggtg atgcacaatg tgtactacca 420
 acgg 424

<210> 54783
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-045-Q1-K1-B7

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 gaagccagag taccaggaat ctgaagagca gtacagaggg aaaattgttg gtgtcgactt 180
 caaggacact ggagaatcct cagggagcgt tgacgtcacc tttgacttct ttgtacccaa 240
 tgagaactaa ttccctggac ttctatcaga gtgtgggtctg caatgtttca tctgttcgtt 300
 gaatttgtga gccctctggg tagaaagtta gaatgctttg ttctctacag tgatgtaaatt 360
 atctanggtc cctgtttgct ccatgtttnc tgtaaattgg gtctggaatt tg 412

<210> 54784
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-B9

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tggcttacag atggctatag ccagtcggg atggaaggca gttcagaaga tgaaagtgtc 180
 acagggtggtg gacagggtag gacaggactg gatcttcatg acagtaggtg aagcgggtgga 240
 tgccctgtcta gctgctcata agggcacagc tctcgcatgt tgagtatgcg ttaattacta 300
 ctattagtag tcctaaagat aatcccataa gcgatgcggg tatttgcac ctagaaagt 360
 gttactggaa atgcttacga aacagaaatg catgggtatga cttgactgga gtggtcgtgg 420
 cgagtaat 428

<210> 54785
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C1

<400> 54785
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 cccggggccc tgagcccgcc gtteggcggc acgggcgcct acggaccggc aggagcaggc 180
 agcaccgact acagcgacgc tgcggcgccg cgcgtgtgca ggctgcacgt ggtggtcgtc 240
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 cggaaggg 308

<210> 54786
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C10

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 caccaagccg gcgatccgca ggttgggcag gaaggcggc gtcaagcgca tctccgggct 180
 catctacgag gagaccgcg gcgtgctcaa gatcttctc gagaacgtta tccgagacgc 240
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<210> 54789
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C3

<400> 54789

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 aggtcgcccc cccgcatggc aactacggcg tcgtgcgcgc caagatcaag tccaacctgt 180
 cgccggaatc catggggccgc aacgtcaagg cgttcatgta cccagcagc atctaataatgat 240
 aatctgaatg cgtggaggac acctactc 268

<210> 54790
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C5

<400> 54790

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 atcgccctgc ccgagcccga cctggaagtg ggcagcttga gcaaccaggc ggtagctaga 180
 ggagccacaa ctccgaattt ctgcgcatgc gagatctcgt tctgtgtgag gcttattcct 240
 gagcttgtcc aataatgcct agacttcctg gtgtctgtct gtctgtctat catggatgaa 300
 ttgactaatg tgctactgat gtactgatcc gcatacaaca aaagaagccc ttgtgc 356

<210> 54791
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C6

<400> 54791

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aaggctggaa gatcccagaa aacctaacca atgtccatgc ctacaccaag gctcttttca 180
gccgtgaatc ttttgtcaag actaagccat ccgaggagca cgtgattgcg ggatgggagc 240
ccaaggtgaa tgcataagag ccttgtgctt tgggtgctacc tgggtggactc catccattta 300
tcttatcagt ctttgtcagt ggtgtggata ggtgtcaagt ctgtagccta gatgcatgat 360
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atcttacctt c 431

<210> 54792
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-045-Q1-K1-C7
<400> 54792

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tagacgacag caacatcttc gagtggcagg tcaccatcat cggaccgcct gacaccctat 180
atgatggagg ctacttcaat gcaataatga ccttccccca gaactatccc aacagcccgc 240
catcagtaag atttacttct gagatgtggc atccgaatgt ttatcctgat ggacgtgttt 300
gcatttctat tcttcatcca cctgggtgaag atcccaatgg ttatgagctt gcaagcgaac 360
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gtccaaatga cgagtc 436

<210> 54793
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-045-Q1-K1-C8
<400> 54793

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ggaaaaaaa ctaaaaaaa aaataaaaat aaaaaaaaaa aataaaaaaa aaaaaaaaaa 120

THE **NEW** **YORK** **PUBLIC** **LIBRARY**

<400> 54796

<210>	54797
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<212>	DNA
<213>	Zea mays

<400> 54797

<210>	54798
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<212>	DNA
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<400> 54798

23431

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<210> 54799
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-A11
 <400> 54799

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 ggtcagagtg ttcattgtacc cgagcagcat ctaaggtttt gttggagtaa agatggacta 240
 gaaatggcca tgtgtttatt tctcactttt ctctgaactt aaaatgcctt gtgttggtaa 300
 cttagattgt tcaagtgtcg aacctgtgga agttgtgcca aaatttgttg tcgaacggat 360
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<210> 54800
 <211> 323
 <212> DNA
 <213> Zea mays
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 <400> 54800

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 cgcgacaaca tccagggcat cacgaagccg gcgatccgta tgctggccag gatgggcggc 180
 gtcaagcgca tttctgggct catctacgat gagaccgcc gcgtgctcaa gatcttactg 240
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gccatggatg tcgtctacgc gct

323

<210> 54801
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A3

<400> 54801

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cctaacttct ctatgacaac atatatgaca ctttgtacac catgctaata tcttttatct 120
tgattatctc caaccacaca atatataatt aaaatactac tattacatta tttaatac 178

<210> 54802
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A5

<400> 54802

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gcccgaagct tctccgcaag gtccctgcacg acaccatgca ggcgatcacg aagccgctga 180
tccggaggct ggccatgagg ggcgtcttca agctcatcta cgggctgacc tacgaggaga 240
cccgacgcgt gctcaagatc tttctccaga atgttatgcg cgacgctgag acctacacgg 300
agcacacccg tcgcaatacc gacaccgcta tcgacgtcgt gtacgccctc aaacgccact 360
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ctacgatct 429

<210> 54803
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A6

<400> 54803

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 tgttcgcgtg tcttgctgta gttagggtgt gctgtgtctg gtctcctccg gtagcaactg 360
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 <211> 365
 <212> DNA
 <213> Zea mays
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 cttgttttagc tccaaccgca caatagttaa ttaaaatact actagtgcac tatttaagac 240
 atgtgatgag ttcttcagtg atgagttgtg cttgcttttg cttcctatgt gaatgtgatc 300
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-A8
 <400> 54805

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gaactgaaag	gcataccgag	cccatccatt	tctgaaaaag	catacagccc	tcgtctcact	180
gagctccagc	atgagcgcaa	ccctctggga	gggagaagca	ggcctaggac	gccatccaag	240
ttgggtgaag	gctcggcacc	aaagtgaata	aagcaatgat	gcattgctta	agctatgcaa	300
ctactggggt	actggccatc	aattatataa	gtgattataa	agtgggttca	gtgttagtat	360
ccaagatgtc	ctctgatgag	attactacta	ttcatgtgta	tctctagcct	ctttgtcttt	420
ctctctcttc						430

ctccaatccg tctcattcct agagtacca aaccaagccg taggggggag agtttcccag 300
 ctgatgacgc gtatggaagt aagagatcat gtagaggggc attgttttat ggaaattttg 360
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<210> 54808
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-B10
 <400> 54808

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 ctatcactaa atactgacac tgcactgtat ccaggctcag atctaaacga cagatactac 180
 atcaaaacag cttgcataga gctactactg tgataaaaca ccgaacaccg gataaatcct 240
 gcacttataa gtccctggact tgctggacca tggcagatta ctcatctggg acagcattat 300
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<210> 54809
 <211> 351
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-045-Q1-K1-B11
 <400> 54809

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 ttttcccttc agtgctgtca gcggattgtg gtgtggaagg agttgcttgt tcgttctggg 180
 ccaagtttca gcttgtagag aagaaggcag acttctttgt taatattatt tttagcctaa 240
 ataaaccagc acaatgtag acggtgatgt ttctcatttg gcatatttgc atgcatgctc 300
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<210> 54810
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-045-Q1-K1-B2

<400> 54810

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ggtgccgccg agggcgaggg cgcggtggac tccaaggacc ttcagcagca gagcaaggcg 180
ctcgacaagc tcaactgatca tgtcaggac cggcagctcg attcatcccg tgtccaatcc 240
gccatggcag cacttgcttc atccaaggag gctgactgga acgcgatgag gctganggag 300
aaagaattgg ctgctgtgaa gatcaaccct gccgatgtcg aaattatcgc tactgagctt 360
gagctggaca agaagatcgc ggagagaacg ctccgtgagc acaaaggatga tg 412

<210> 54811
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G11

<400> 54811

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ccccccctca attccgccta tagattcccc tctttcatgg attttgatcc aatcgtaata 180
ttgtcagtag ctctagattc gtcggtagct ccagcatgag tgtcgggtgt agttctgtgc 240
ctgtaaaaac ttgggatagt tgatcgctg tgatcagccg tcatgctcct gcagtctcta 300
tgaacaagct aagctataat agtattttgc taaaaaaaaa actacctgaa aaaagtcaaa 360
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gggcacacca ttcaatt 437

<210> 54812
<211> 426
<212> DNA

<223> Clone ID: LIB3088-044-Q1-K1-G4

<400> 54814

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 cgttctggag gcttttagtgc tgacggctgg cgtgggtgggt tctctgactg cgtatgcttt 180
 ctgggcgtca aagaaggga aggaattcgg gtacctgggg cctatcctgt cttccgcgct 240
 tactatcctc gtcctaacta gctttcttca ggttttcttc ccactgggac ccgtgtcggg 300
 gggcttggtc ggtgggctag gggctctggg cttctcaggc tttatcctgt acgacaccga 360
 aaacctgatt aggcgccaca cctacgacga gtacatctgg gcgtcggntg ggctggacct 420
 cgaca 425

<210> 54815

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-044-Q1-K1-G8

<400> 54815

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 gtatgaaccg atggccttgg tgacaatctc tccccctttt atatgttcag atgggtngct 180
 tttggcaccg gaaattaatt ctaggccagg aaaattttca aattgtgaac catagatggg 240
 cacatgctca aacaatTTTT ttggtaatgc cgagcaatct gctaaacttg ccagcagtga 300
 tgacaggcca taggctttca caatgactga gagcactaca aactgtgggg atgaacaatt 360
 gacagatgtc aaagaacctg tggccagtac agcaaaagaa cagttatcga aagacatcga 420

<210> 54816

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G9

<400> 54816

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ctccgtgccc cacttgggca aaacacgggt ctgctgaggg gtcctaagaa cgctagggaa 180
gctgtcaggg acttcggggc tgcaccagga gtgcctcaca gccacaccaa gccttatgtt 240
cgctcgaagg gtaggaagtt tgagaaggcg agaggaagga ggaacagcag gggcttcaag 300
gtctaagtgg ccaactgcctt gccaatctag tgccgttttg ctctgtgacg ctcaatatta 360
ccgttttggg gtcatagttg taatgtttta gttgtcgga tctctgtgca ttatcgata 420
tcgaaccaat caaatt 436

<210> 54817
<211> 274
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-044-Q1-K1-H1
<400> 54817

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gcacttaaac gactccattc catttcatcc catctcacca tgcgtgcaca gcgaggtctc 180
cttttgcctt cccgaatgca aagtttgaaa ggctcgtcga cggatttggg tctccttttg 240
cccacccgaa tgcaaagttt cgaaaggctc gtcg 274

<210> 54818
<211> 412
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-044-Q1-K1-H10
<400> 54818

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ggttgggatt tggggatgca aggactgtgg gaaggtcaag gccggtggtg cttacaccat 120
gaacactgct agtgcggtca ctgtcaggag cacgatccgt cgcttgaggg agcagactga 180

agcatgatcg gtcgcttgtc aggcatactg ggggccacta tattggctgt gtagccgaga 240
cagtactcca gcatttttgg gttatgctct aggatctcta aagggttgggt gctaagattt 300
ctacttgttt accgttgtga atttcacaag tgatatctga tcctattact atcatgatga 360
cgtcaaattt gcttctaaaa aaaaaaaant tttaaaaaat aacattttan ac 412

<210> 54819

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-H11

<400> 54819

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ctgatccagt ggttgttgct gaggatggga aggtgaaaac gttccctgtg atcctattgc 120
ccaaggagaa gcttgttgac accaacggcg cagggtgatgc ttctgttga ggcttcctct 180
cacagtgtgt tctaggcaag ggcattgaag actgctgag ggcagggtgc tatgccgcaa 240
acgttatcat ccagcgcccg ggctgtactt acccgagaa gcctgacttc aactagtga 300
aaactgaggc acgtcatgag agggactgtt ataggcacac ttaattgtta accagtgcgt 360
ggttcggtgt ctacacaccc tgtattcttc cgaggcttct cttctgatcc ggccaatatt 420
tttgccgtga aatttg 436

<210> 54820

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-H12

<400> 54820

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gcgcggcgtg gtgtcggcga agggcggcgc ggtcgcgggc aagaagaagg ggtcggtttc 120
cttcacgatc gactgcacca agccagtga ggacaagatc atggaggtcg cctcgctcga 180
gaagttcctg caggagcgca tcaaggtcgc cggcggcaag gctggcaacc tcggcgactc 240
cgtcaccatc tctcgcgaga agaccaaggt caccgtcacc tctgacggac ctttctccaa 300

gaggtacctg aagtacttga ccaagaagta cttgaagaag cacaacgtgc gggattggct 360
acgcgtgggtt gctgccaaca aggaccgaaa cgtctatgag ctccgctact tcaacattgc 420
tgagaacgag ggcgaggaag aa 442

<210> 54821
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-044-Q1-K1-H2

<400> 54821

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ccacgacttc atcgtcaagg atgcgagcgg caaagacgtt gacctcagcg cctacaaggg 180
gaaggttctt ctcatgttta acgtcgcatc ccagtgtggc ttaactaact ccaactacac 240
tgagctggcc cagctctacg agaagtacaa ggatcaaggc tntgaaatcc tggctttccc 300
atgcaaccag tttggtgggc aggagcctgg ta 332

<210> 54822
<211> 445
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-044-Q1-K1-H3

<400> 54822

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gtgttaacaa aaatagatgc ccctcacatt tccttttttg tccccccaca acaacaccat 120
gcatgattac ttctcctgaa caatgcatgc acacctaggg taaaataaaa tactctcaca 180
tccaccaccc ttaggctatg gagtgtgttg attacattac aggcatgcca gcatccgtgt 240
ttgcttgtgt gtgcagataa caggcgagac ggttggggag gtgaaggccg tggcaggtat 300
gcatcagagg aaagctgaca tggccagtca atctgacgcc ttcatagcac ttcttgaggg 360
glatggaacc cttgaggagc tgctggaagt gatcacctgn gcgcagcttg gcattcacia 420

caagccggtt ggcttgctaa acgtg

445

<210> 54823
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-H5

<400> 54823

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caggtattct tttgcccttc cgaatgcaaa gtttgaaaag ctcgtccacg gatttgggtc 120
ttcttttgcc caccggaatg ccaagtttcg aaaggctcgg ct 162

<210> 54824
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E8

<400> 54824

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tgagattatg tacagggtcca tgaagaggta cagcagatga cattcatagg caaggattta 120
gctaaaactt atcgagtaaa tgaaacttat taaggatcac ttgctagtat gcctactcga 180
tcatactcat acacctgcta cagctagtaa gaatacttct atgatacagg aaatggatgc 240
cacactatga tgatagggtta ctggatagca actgcactta ctaagaccaa actgactagc 300
tcgataatta tgggtgctgac atcagagata cagtatcaag gctgctctgg tcctttttcc 360
attactgggc atatgagcac tattacacat gagatgtcat atcaattcgc actggacgga 420
ttatcagtaa tgaacg 436

<210> 54825
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E9

<400> 54825

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 gcagtctgga aatattgaca caggaaacta ttttaacagt caaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaattta aaaaatccaa aaataaaaaa 300
 aaaagggggg gcccttttta aagggtccaat tttttcaccc cgtttctata aacttataac 360
 ttttttttaa gggccc 376

<210> 54826
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-F10
 <400> 54826

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 atgactgccg atacgcgctg tatgatactg attgcgatac tggggagaat gtgcagaaaa 300
 gcaagattgt catcattgcc tgggtgcccac cgacatcccg catacgtgct aagatgctgt 360
 actacacagt caaggaccgt atcaagtact agcttgacag gttccactac gaaat 415

<210> 54827
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-F11
 <400> 54827

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 cgtggtgtcc aaggaggagg ccctggactt catcgagcgt gatcagacgt acaatgctag 180

ctgaggctgc tgctgctgtg tattgattga tctgcaggca gatgctaacg cagacaggat 240
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 agttaggtag ctattggacc agcttgtttg gcgcataaac gttgtgaatg tagcagctac 360
 caccttggtt tggtagcagc ttttaattaag tttgggaagc gctgattaga ctagacgtac 420
 gttacatg 428

<210> 54828
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F12

<400> 54828

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 tgggtatact gaccagctat ttaagttcct aggtttgtaa catgtatgtc cgctgcagt 180
 tcagttgaga tgcttcaagg ctaaggttct gttgtgtgac ctgtagacac gaggctgtca 240
 gcttgatttc tcttggtaat gtgtgtcagc agagcgttag cattaagtct aattgaacag 300
 tgctgttatc tgtaacgtct gagtttgatc agaaactgaa gtttaattgag gaagac 356

<210> 54829
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F2

<400> 54829

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 aggttctagg tttcttctat tgaagaagct gagaatcttt ggtatggcct gcctgcctgt 180
 cttactctct cagactagag tacctgttat ttacttttaa tatgtctctc tcagactaga 240
 gagccttctt ttacttgaat attgggtact gcattggctt ttacttttaa aatcgggtgac 300
 tgcatgtatc gaattatctg agccggttct tcagatacaa aaaaaagct gacatggacc 360

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368

<210> 54830
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F3

<400> 54830

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ggatggtgaa gtctcctgga ggaccatcag taaaatttct agttaatgct gttcacacca 180
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ttgctagtcc taaagatcac cgtaaagcaa aacctttcca tgaccatgtg tttgtcttct 360
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ttgataaagt tgat 434

<210> 54831
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F4

<400> 54831

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tgcatatgac tttggacaca cttgaaaaac gcttgatctg gcttacaatg aaacatgata 180
gggtcactgg gatgattcac taagatctat aattggttgg agcactatgt accattttca 240
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<210> 54832
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F6

<400> 54832

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tttgacaca ctggaagaac gtttcaactg gttacaatg aaacatgatt gggtcactag 180
gatgattcac taggatctat aattttttgt agcactatgt cccattttca gtgctattat 240
gtatctgttt aatccttttt actgcggttt gaacttgatg tgacattatt gtggatggat 300
tgtacctcca tctattattg caacatgttt ggaacttggt atgagaatta tgtttagcta 360
aaaaaaaaa aaggagaaaa aatttaaaga ttcaaaa 397

<210> 54833

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F7

<400> 54833

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aaatcttctg ggggaccata aatataatat atagatattg atggtgacac cctggatgag 180
ttgatgcttt cctgttacgc atatgaaagg gttacgccca cttcttacat tttctacaaa 240
ttttgatgag caagctcatt ggaagcttgt taaagagatg ataactcaga tatgcgctag 300
ttctaaagat caccggtgag caaaaacttt tcatgaccat gtgtttgtct tatcatttga 360
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<210> 54834

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E4

<400> 54834

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gggggaatat tgtcaactat atgaataggt acaggcatta aaattaattg tgcagcattt 120
 tgctaaaact caaaatgtaa atgaaactta ttacggaaca ctt 163

<210> 54835
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G1

<400> 54835

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 catctagtct ttgttttaag tgttcggtaa cagtttgtga cagtataatc tggtaaaccg 180
 tgttattttt ctgccactcc tatttgaaca cattttct 218

<210> 54836
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D10

<400> 54836

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 ctctctggcg ttaacttgcg cagtgattat gaggatgggt atgaagagga agatgtcaac 120
 tcaaaaggct gtgacaacaa agggacctta tagaatacct cttgtagaaa agccagaaat 180
 caagaaggct tgaagcaaca atataatgga gaggaagacc aaaatgggtg gagcaatgca 240
 actactggag gtgctcggaa aaaaaagggt gggcatgtaa gacaatcaat tgctactcat 300
 gatgccattg ataaaaatta tagtggcagt tcaacttaag gtttaaggaa caagatacag 360
 aattctgctg ttcaaagcgc ttcggtaagc agaagggaag gggtgaagca acgatctgat 420

<210> 54837
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D11

<400> 54837

cccacgcgtc cgcccacgcg tccgcccacg cgtcgcgcca cgcgtccggc accacagggg 60

agctgctttc ccagcttgct gacttgctga agctgtctgg ggctagacac acgattctct 120

acgcttccca gccatctggg tatctactgg agaacccttc cggctcgcca gtggctaggc 180

accttgcgga gaggactaac ggtacaaaaa ctggcctact gagcaaagt gacggagagt 240

gcctagtcaa atcaactctt cttgaaggaa cttttgtcgg aatagtgtc cttatcatct 300

tgatatcagg gctcatgtgt atgatgggaa tcgatactcc ctccaagttt gaagctcccc 360

aggagtcttg atctcccttc gaagcagaac cttgtttttg ttggtctgca ctgtggatag 420

atattattca gt 432

<210> 54838

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D12

<400> 54838

ctccctagca atctctagca gcagatcttc gtgcaaagca aagcgctagc cttcctactg 60

tcccgatggc ccgcacgaag cagacggcga ggaagtcac tggcggcaag gcgcctagga 120

agcagctggc cacgaaggcg gctcgcaagt ctgccccggc taccggcgga gtgaagaagc 180

cccaccgttt ccgccccggc accgtcgcg ctcgggagat ccgcaagtac cagaagagca 240

cggagctgct gatccgcaag ctgccgttcc agcgcttggg gcgtgagatc gccaggatt 300

tcaagaccga ctttcgcttc cagagctccg ccgtcgccgc gctgcaggag gcgtccgagg 360

cctaccttgt cgggctcttc gaggacacca acctctgcgc cattcacgcc aagcgcgta 420

ccatcatgcc caaggaca 438

<210> 54839

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D2

<400> 54839

<210> 54842
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D9

<400> 54842

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gtagtgagtg ccacatatca tcttccactg atatagcatt cagtttttgt attttcagta 120
atgcagtagt aatgtactta tggcagtatg cactttgcgg ctgaaatttt agacggttca 180
acttcagaga tggctaacaa tgggtctgag tcaacaatgg atgcgaagcg tagggccagt 240
cctgtaccag cacatcataa ctccaggcag atgaacaaca atcatcattc tacaactact 300
actactacca ccaccacgctc atctgctcca gctaaagtga caaaggagca aaagcagagt 360
cttgtggacc ttgacaggct tgattctgcc aggaagaggc tccaggagaa ttaccaagaa 420
gcacaaaatg 430

<210> 54843
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E1

<400> 54843

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ctgggcttca gccatgaggt gcagttcacc gctcctccag ctgtccgtgt cttctgcttc 120
aaacccaaca taatctgctg caccggcatc gataaggaca ggggtgcacca gttcgccggc 180
gccatccgga gctctaaggc tccagagggtg tacaagggga aggggatcct gtacattgac 240
gaggttatca agctgaagcc cggaaagaag cgaaaaaata agtgacgatc cgaaggcggt 300
acaacttttt ctgtctttta accccatgct tcgcatttgt agtgatctgg atctggggtc 360
tgctgtgttg tgttgtgtac ttgcgttgtg ctacacagat caccattatc ttacctttac 420
ctcagctgca tgtaggacca tgagtgg 447

<210> 54844

<211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-E10

 <400> 54844

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 tcaaaggctg ggcttaaggc tcctcacaac ctttatgtga tgacggcgac actactagct 120
 cgtagcaacc gttacgctga aatagcattg tttgtgtcaa acaagattct tgagccgtgt 180
 aaagaactgg caatgcaact tatggagctg ggtctgcagc acccgccaac gaggaagctg 240
 ggcatggaca tgctgaggga gcgaggcctg catcacgact acgtgactgc gatgctgcaa 300
 gatgggtact acttggaggc cctgcgctat gccagaaaat acaaggtgat caccgtgcag 360
 cctgccctat ttctggagaa agccctggcg aagaacagcg cccacaacct ggctgcagtg 420
 ctgagcttct tctgcg 436

<210> 54845
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-E11

 <400> 54845

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 tggaaaaaat taaaaaaatt aaaaaaaaaa caaaattaat tactcaaaca ttataaataa 120
 ttgacttcta ttattccagt ctcttaattt cttttctttt gcctaatttt ttttaattct 180
 tgttctgtta aaccccatgt attttcccat attattctgc ttttcaacac tttccccttt 240
 ttccatttga cgtattttcc ataagtcctt tacggttcgc ctttcctttc agttatgctt 300
 tctaactgct aattggcacc ctcatTTTTT cttatcatta atcccaatgc tttttttggc 360
 tatcgggtatt ctataccctt tcctctttta accccctatt tcctaatttt ttcccttttt 420
 ttctttcttt tctttt 436

<210> 54846
 <211> 443
 <212> DNA

tcatggtgca cctggccacc atccccgtca cggcaccgg catcaaccg gccaggagcc 360
 tgggcgccgc cgatcatctac aacaaggaca agccctggga cgaccactgg atcttctggg 420
 tgggccctct cgtgggcg 438

<210> 54851
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B9

<400> 54851

cggacgcgtg gggagcttgt attcacgcat gctgctgctg ttgccaaact tgtgtaccgg 60
 gggattaccc atcggcgat tccatattgct ggtggacacg ctcgtgctgt ctaacgggct 120
 atcgattgtc agacacctga caacctggga gaatccctag gcaatgatgc cggagctgac 180
 catgcgagac gcttgtgaca agctcgcat ctacagtctc ttcaatttaa gactccttct 240
 gagcatcgct atgatcgga tctgtactgg ggctaacttg ggaattgaca a 291

<210> 54852
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C1

<400> 54852

gcgacgtcga cgggggcctg ctgcgacggg aagccgagcg cggaagaag atgaagcgcg 60
 cgagtcctgt cgccagcggc gcgcagtcgt ctccgcctcc gcctccgccc gcgccccgc 120
 acgtcgaggt gctggagctg cgcgtgtcgg aggtgggcca ccacgtgctg gtggtcagcg 180
 tgacgtgccg caagcgacgc gacgccatgg ccagggtgtg ccgcgccatc gaggacctcc 240
 ggctccgtgt catcactgcc aacgtcacct ccgtcgccgg ctgccacgtg cacaccgtct 300
 tcgtcgaggt agataaaatc gaccacatcc aagtgaagaa catgattgag gctgctctca 360
 cgttgctcga cgcccccgga agccccaca gctcgatgag ctattacgag acctaactat 420
 gttgagcaat gcttttccga cgtctacta 449

<210> 54853

<211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-C11

 <400> 54853

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 ttcataatga taggactgta agattatggg ttcaagatag ctgatcaact tgcaggtgtg 120
 gactacgctc agaccagacc taaacagcac ttgcctatca atgagaaaat atgtctgctt 180
 cccatggata tggatcgcta ttccagatac gtttacaact tacacaaaga cattaaccat 240
 gcgagctttg ttttaatctg atgtgttatc ctaagttgtg aatgctgaat aaatcaacat 300
 ctagtcatct ctaataatgt tgtgatatgt tatgcccaac ggctgtattc caatcaatat 360
 tgatttattt tgcaaaaaaac aaaataac 388

<210> 54854
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-C12

 <400> 54854

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 cgcgcttcaa gaaccgctac agcgcggccc agttccccta caccctgctc ttccccaaca 120
 cctccgacaa gggcgataac accggcgcta ccgccaaggg catccccaac agcatttcca 180
 tctgattcga tcgagtcctg gccagcgttt cacccaaaaa agcagagcta gcggtgattc 240
 ccgtatgtca tccgtttcat tttttacatg aatgagaagc gtggtataaa aaagggttgt 300
 agttgcgtgc gcgccgtgta ttccttggtg tactgggtgt gccggttaacc acttattacc 360
 agggatcctt gtaatttttc ctggttggtt cccaataata atgtgaatat attggtcaca 420
 tgcattggtgt 430

<210> 54855
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C2

<400> 54855

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cggttcaacc tgatgcataa atgtcactga cgcttagaag gctatctggc tggcgactta 120
gttgataatg gtgtgttttg ccatatatag caatggacca tttcatttta tggacaattg 180
acttctgggt gggtggctat acaaaccata ggtaggtctg taatgactat tctaactcga 240
tggaccgaac tattgtatgc agactactcc aaactggaat catgaataaa atgtggtact 300
atatgctcgt agacattttc 320

<210> 54856

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C3

<400> 54856

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ggcattagcc agcattagcc acgaagatga ttcatcata gagcttgcaa acgaggtgag 120
gaaggtgctc aacagaacaa aggagaccaa gatcactggg gccaatgctt cctgaaatc 180
acatgcccct cttgtgcacc tgtccgcgct tccagaaggc accgttggtg actcgagata 240
gcgagagcct tggacgttgg acctctactc ggaatttact tccagctctt gcatgtttgt 300
ggccatcatg tactgatttt cccttttcaa cagttgtcgt gaggtgtat cttctggagt 360
taaaaaaat gctaaaagcc ggcaactaata atgatataaa ctttgaaaat 410

<210> 54857

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-C5

<400> 54857

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ttctgaacca ctcggtatcc cctcatatct tgaactatgg tcgagtagat gaagccacaa 120

aategttgac gtttcccttg tctcgaccct gtgatgcagg ggagcaatgc tttctcagtt 180
 atgggaaaca tccagggtcg catcttgata cgctctatgg attcctacca agaggagaca 240
 acccttatga tgatatacct ttagatcttg acacatcccc cgatgacgag gacatcgag 300
 ctcagccttc ggcgactaca agccaaacaa ctcatatgga tcgtgggaca tggctgtcga 360
 catccggagg attccccacg tatggcctgc cccagccctt gctgacctat ctccgtgctg 420
 ctctaggctg tg 432

<210> 54858
 <211> 277
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-C7

<400> 54858
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 tcgcatggag tgtcaaacaat ttattaaacg catgtggaat caaatgaagt tggactaata 120
 aagacaacaa caaaagcaaa caaaatcaat aagagacatg ctataagtga aatgacaagc 180
 acatcatgat caccatgtaa gaacttacat aaggacctgg ctgtgaatcg aaatatcgaa 240
 agccctttaa gaaagaaact gtactgacta tttaatg 277

<210> 54859
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-044-Q1-K1-B3

<400> 54859
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 tacaaccaca tcgacgtccc caaggtggtg gctctcaacg aatcggtgcc cgggagcgtc 120
 aagtccgtct tcaagccctg ggagcagcgc cttgacacct cgggggggttt tctggagagt 180
 aatgaggggtg accctgagct acttattttc atcccgttca catcagatgt taagatcaag 240
 agcatttctg ttgttggtgg tgctgatgga acaagcccgt caagaatgag agcgtttatc 300
 aatagagaag gtattgactt ttccgatgct canaacatgc agccagtga ngaatgggaa 360

atagcagaga acctgcaagg agc

383

<210> 54860

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A1

<400> 54860

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cctgtgcggc tacaagaact cgccgtggat gggcgtctac aacatcgacc ccaagcgcgc 120

catggagctt ccggccaagt gcggcctcgc cagccgccc gactgctagc agtgtgctag 180

ccaagccaag ccaagcagga agggcccccgg cattgctagc tgtacgtgtc tgtgtgtgca 240

tctgcagcag ggtgcaggca gggggccgta cgtacgtgtc tctttctctc tctcatcttg 300

tcaccgtacc tatctagagt gtgtgtgttc gtactaatta aaatgttctt gtcgtcgtcg 360

tctgtgcatg catgtaccat gtcgtcgtgc atgtctatta tgtgtgtgtc gtcgtgtcga 420

tcggtacgta tagatgcctg gtgttagcat gtgt 454

<210> 54861

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A10

<400> 54861

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gcgtgaggcc gcccaagaag ggttcagctg ttcagcgcgc tcgcaccagg actctgactg 120

ctgtccatga tggcatcctg gaggatgttg tcttcccagc tgagattgtg gggaagcgtg 180

tcaggtaccg tctggatggt gccaatatca tcaagatctt cttggacca aaggagagga 240

acaacaccga atacaagctg gacacctaca ctacggtcta ccgcaggctg tgtgggaaag 300

atgtggtctt tgagtaccct atggccgaaa atgcataaat atgacgcccg gatatcccca 360

ttttattttg ttgaatctgg atgtttcttt ggggtctcaa ctagactgct ccgtatgtac 420

ttcaaaaacc at 432

<210> 54862
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A12

<400> 54862

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaata aaggtacctt aactatataa gattttaaaaa aaaaatcatt ttgaaaacaa 240
cttaaaatta tcataaaagg gaccccataa atgtaatat aatctaaggt gtaaaaaaaaa 300
aaatacttaa atggaaa 317

<210> 54863
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A3

<400> 54863

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gctccaagag caacaccagc agggacgcgg gcatggacgg caccgcagca agagccaaca 120
aggacgcgaa caagggcacg gccggacgca cggccaacaa gccgaggacg aagtccgtga 180
cgaggtccct gaaggcccgg ctgcagcgca tcgtgcggcg tatgaagaag gatctgaaca 240
aggaccgcga cgcgacgggc gtccgcacgt acgtggccgt ctacctggac gacgtgctcg 300
agtacgtggt cgaccaggtg ctggaccttg ccgacgacaa tgacaaggac aacatgatga 360
cgcgcatcat gctgctggac atgctcatgg acaagcagct cgacgaggag ctgggcaagc 420
tgatgatcgg cgacagca 438

<210> 54864
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A4

<400> 54864

cccacgcgtc cgccccacgcg tccgcccacg cttccgcggt ctcgtgggaa aaaaaataaa 60
ggaaaaaatt agaaaaattt ataacaaata atatataaat atatctcact tattttattg 120
ttt 123

<210> 54865

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A5

<400> 54865

ctcacgcgtc cgatcctctg tgcgatgcgc tgtacttcaa gctctacttc atgaactgca 60
ggccaaggg caacaccacc agggacgcgc gcatagacgc caccgcagca agagccaaca 120
agaacgcgaa caagggcacg gccggccgca cggccaacaa gtcgaggaag aagtccgtga 180
cgaggtccct gaaggtccgg ctgcagctca tcgtgcggca tatgaagcag ggtctgaaca 240
aggaccgcta cgcgacgggc gccgcacgt acgtcgccgt ctacctggac tacctgctcg 300
actacgtgct cgaccaggtc ctggaccttg ccaacgacaa tgacaaggac cacatgatga 360
cccgcaacat gctgctcgac atgctcatgg a 391

<210> 54866

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A6

<400> 54866

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ggtaaattgga aaagtggcta catactacag caacagagct gctgcctttc tagaactaac 120
tagctaccgt caggctgagg cagattgcac aagtgccatc gaacttgatt ccaagagcgt 180
gaaagcttat ttacggagag gcaactgcaag ggagatgcta ggttattata aggaggccgt 240
tgatgatattc aaccacgccc ttgttctaga accaatgaac aagacggctg gtgttgccat 300

caacaggtta aagaagctgt ttccttgaat atgaagctgc atgaagatat gataacctca 360
tattttgtgc acacacaagt tgtgcgtgtc agtgggggtgg gattgaagta cctgagttca 420
accgacggat gctgatcac 439

<210> 54867
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A7

<400> 54867

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gggtggaacat aataaaacac agggacgcgt acaaagtctg caccacaagc agagtacaaa 120
cagaggctat taattgcgct gaaccaccaa tggttgagac gtcaatgaat aggtaaacta 180
ttaacttgct cattttcgag ctcccttctca ttgattgtat tctatgtaag gactcgacga 240
tggtacgtctt gcacacacga atccaatcat tgtagttcga aaacttgaaa acgtactcga 300
ataagtggtc gaactgggtca tgaaaattgc cggccactct agcaggtcca acatta 356

<210> 54868
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A8

<400> 54868

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gtaattatatt atgcgacata acctgtgcta ttgtaatgtg tcacatgctt atatttgcaa 120
taaacagctc taggtgggtca gctttgtctg ccgcaatgag cagtgtatcg atattgtggt 180
tttgaattgt ttggatctag aaaaaaaaaa aaaaaaaaaa caaatagaaa aaaaataaaaa 240
acaagaaaaa taataaaaca atgcatgg 268

<210> 54869
<211> 425
<212> DNA
<213> Zea mays

<400> 54871

cccacgcgtc cgcccacgcg tccggtcagc tcaagtgacg tgattagacc gaacatgtct 60
gttcgcgaag gcattgaaat tgttgtctct gtgggcacat cgatgcctca agtattgtcg 120
attctggaaa ctgagccaaa ccagttgaac aggatcagat ccacccgaag ctgagatgac 180
ttcacatttt gtaatttcgt gttacaaagt ccttggtgta caagagtagg ttctgacaga 240
ttgtacagtt ctctgggta gaaagcaaaa tctgtttgtg aacacatctc acctgaacgc 300
gattgcttgt atggccgtct cagcttcttc agaaatgtaa cttagcagtt gagtagagtt 360
gacctatgtt aagagttgtc aagttttgaa gtggaagaat tttcttaacc atttg 415

<210> 54872

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B12

<400> 54872

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gcctgcgggc atggcggggc cgatcactgc tcttccggac ctcccgacca tccacacgac 120
gatcgacaag accaagcgcg cccattggca cacggcacat acggacgcct gacgcacgca 180
ctgtgcacac gagatcggac tttgagcgag acctacatag gccactgtat gacaatcctg 240
ccatggcgta agcagatgcg tagctgtaat ctgtataaga agacactatg tatgagctcc 300
tgcggaacct tagaaagtgc atagctgtga ccaaactgga ctctcacggg ctgaagaagc 360
cggcggaccg tgctgatgat acaaggttac tgacggatgc atgcgactag atcattgaca 420
tgc 423

<210> 54873

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-G10

<400> 54873

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gtaggaaatg caggacgtga acaggcnaac gaactcaagg atggcttggc tagggttcct 120
 ctcccttggc gtctgcttat cagtggcagg tttgcagctg tggcacctga agaccttctt 180
 tgaaaggaag aagttgttgt agactgtagt tggcccatgg ttcacggtag acctcagcgc 240
 aggtgtaacc tatttttggg tgaactgccg atctgttacg gagcttgaaa tcccatgtaa 300
 caaacgttat gtcgtacttg agaaaatatg ctttagcctg tccagttgaa attataagaa 360
 acttgaaata gatactaaat tgt 383

<210> 54874
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-G11
 <400> 54874

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 cgctgagggg ccgtgtcgac cgctcggtgct aatgagggat cgccgaagca tgagtacacg 120
 gtgaccggcg tggagcgcgc tgtcggcggc accgacgacg acggccgggc cgtggcctgc 180
 cacgcggagc cgtacgcgta cgccgtgttc gcgtgccacc tgacgcggca gacgcgggcy 240
 tactcggtgt cgatgctcgg cagggacggc acggacgtgg acgctgtcgc ggtgtgccac 300
 gccgacacgt ncggctggaa cccaagcac gtcgccttac aaatgctcaa cgtga 355

<210> 54875
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-G12
 <400> 54875

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 gacgatggcg gcggccggcg gcgagaacag cggcgcgggc gagggcgagg gcgagtttta 120
 cctgcgctac tacgtgggtc acaagggcaa gttcgggcac gagttcctcg agttcgagtt 180
 ccgccccgac ggcaagctcc gctacgcaa caactccaac tacaagaacg acaccatgat 240

<210> 54878
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-G7

<400> 54878

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gtgtcatcag ttttggggaa catctagtct ttgttttaag tgttcggtaa cagtttgtga 120
cagtataatc tggtaaaccg tggtattttt ctgccactcc tatttgaaca cattttctag 180
ctggtgaatg aactgtttgg tcgatcttgt tcagatgtct ggttcgcatt cgcattctga 240
gagatttcat gtctcgtgct gactcaagct gtcacgcca tgtgcttctt gcacacgatt 300
atcaattcag tagttgtgat 320

<210> 54879
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-G8

<400> 54879

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ccgccgacaa ggctaagggc aagtttactg ccgatgacgt cgctgccgcc gccgctggtg 120
gcgccgccac cggcgcctct ctccaggaga tcgactagac tcttcacggt catctgatgg 180
ttgtcgtacc gccttttcct catctcttta gtttttgcta ccaattgtta tgtgatagag 240
gtcttatggt atttgaaaac tgctctgtgc ctggatgaga gttttggaac ataattgtgaa 300
cctgtgtgtc tgtgacctga gctttgaaga tctcattatg t 341

<210> 54880
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-H1

<400> 54880

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agccacatgc ccagatactt gaggcaactt gattccaaat acgactttta gtaacctatt 120
gtgtcgtata attccgttat tctctgctag acctagtaat ggggaacaac tatctccaaa 180
agtaacattht ggtaggtga ccaatgatgc tttcagataa ctgcaacgtc tgatgtcatc 240
taagttcgct cagtatatat atgacaaaag tgcacagat ttttctcact caattcttct 300
tctagtttg gtagacaaaa gttgagcatt agaaagcata aatttctcag gagaagcttg 360
cagacagaca nctgttttg 379

<210> 54881
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-043-Q1-K1-H10
<400> 54881

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gtgggaagac cctattttgtg cgaatgggtgg taaatggacc atcagctgtg gaagaggaaa 120
atctgataca ttttggtgc acactctgct ggctatgatt ggtgaacaat tcgactatgg 180
tgatgaaatt tgtggcgag ttgtcagtgt gcgtgggaag caagaaagaa ttgctatctg 240
gacaaaaaat gctgccaatg aagctgctca ggtaagcatc ggggaagcagt ggaaggaact 300
tctggactac aaggactcca ttggattcat tgttcatgac gatgcaaaga agatggacaa 360
aggcctg 367

<210> 54882
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-H11
<400> 54882

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gccgagccac aacacgatgt actcatacaa agacgcagat aggcgtcggg agtgggtcgc 120

tcattcttcag gctggtgcag gcattgttgc cgacagtagc ccagatgacg aacaacgtga 180
atgcgagaat aaggctgctg cactagctcg ggccatcgat cttgcagagt cagcctttgt 240
agacaaagaa tagtgtgcta tggttatcgt ttagttcttg ttcattgtttc ttttaccac 300
tttccgttaa aaaaagatgt cattagtggg tggagaaaag caataagact gttctctaga 360
gaaaccgaag aaatatggnn aatgagggtta tggcttatga cttgtcgttg ttcagtatg 419

<210> 54883
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H12

<400> 54883

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accgctacct tcgatggcac ccagggcgga caagaagccg gggcggaata agcctgcaga 120
ggaggagccc gcgacagaga aggcggagaa ggctccggcg gggaagaagc ccaaggccga 180
gaagcgctc ccggcgggca agtccgcccg taaggagggc ggcgagggca ataaggggaa 240
aaagatagcg aagaagtccg tggagacctt caagatctac atctttaagg tgctgaagca 300
ggtgcacccc gacatcgga 320

<210> 54884
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H2

<400> 54884

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gctttgatta ctggaaatgt gttgacaaga atgttgcaaa aaaactcttt gagatgttaa 120
aatgacaaga aaagttttcc ctacttcagt tatccacca aagttggtta taattgtatc 180
acttgtgtgg cctatagact attaaggcgc tcaatatttg ttagagaagt tttgccactt 240
gggtaacaca aattttccac tgccagtttg catttcattt ctgctactag tattgaacca 300
gcagggtttc tcttgcattg ttggataaaa aatccatcga atatttacia gattgtggct 360

gattattaaa tgctgtaata caccttaatt ggctttt

397

<210> 54885

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-H3

<400> 54885

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cgcagagata tttgttgatc atgatgtata cctgccacct gcccgaagcc atcatgatgc 120

tcatggccag ttttgctctg gaggtattgt attggcttct cgagatggaa agattgtgtt 180

tgagagtaca cttgacgcaa gactagaagt tgttttccgc aagaaattgc cagagatccg 240

gaagcttctt tttggccaga ctgcagccta atcgactcat ctgccgatgg tacgactgct 300

tctatgtaat 310

<210> 54886

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H4

<400> 54886

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gttgatattc aaacatttga tgtgacacga actaaactta agtcagggga accatgtgag 120

ccattaatac tgggtttaac ttctttttat ctccaggttt actctccttg gcctaattcca 180

tttttcagga tttttgatgg aagaaattca tgtgagcata tgcattgcaca cataaacctg 240

tggtgtttca gcctttcagg atacagcatg gtgagcagga ccagttgggc acgtgctcca 300

tcgactgcgg gtgca 315

<210> 54887

<211> 76

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-H6

<400> 54887

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gggggnggggt tnattt 76

<210> 54888

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-G1

<400> 54888

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gcccaccaac ttccgcaagc agctcaactgt gcagctgaag aagctcgctg ccgccggcaa 120

gctgacgagg gtgaagaact ccttcaagct gccggccacc gacgccaagc ccaaggccgc 180

caagcccaag gcaccaagc ccgcgcccac gcccaagccc tcgccgaagg cgaaggccaa 240

gaccgctgcg aagcccaagg cggcgctgcc caaacccaag gcccaaggcca aggccaagcc 300

tgctgctcct gccgcgcgt cgcccagcc ccgcgggagc cc 342

<210> 54889

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H8

<400> 54889

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cggctacaac atgcgctaca cgatcaagga ctagaagatt gcgtacaagc tgacggtcga 120

tgactagaag aagatcgagg acgccatcta cgcggtcatc agctggctgg acgccaacca 180

gctcgacgag gcagacgagt tctatgacat gatgaaggat ctggagagtc tctgctaccc 240

tatgattgtc aagatgtacc tatgcgctgg tcaagacatg ggcggcgctg gcggtatgga 300

cgacgacgcc 310

<210> 54890
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-E5

<400> 54890

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gagaagatgg ctcgtagcaa gcagaccgcc cgcaagtcca ccggaggcaa ggccccgcgc 120
aagcagctcg ccaccaaggc ggcgaggaag tcggcgccga cgaccggcgg cgtgaagaag 180
ccccacaggt acaggccccg caccgtggcg ctgcgcgaga tccgcangta ccagaagagc 240
acggagctgc tcatccggaa gttgcccttc cagcgcttgg tccgtgagat cgctcaggac 300
ttcaagacgg atctgcggtt ccagagccac gccgtcctgg ccctccagga agccgccgag 360
gcctacctcg tcggtctggt cgaggacacc aacctctgcg ccatccacgc caagcgcgtc 420
accatcatgc cc 432

<210> 54891
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-E6

<400> 54891

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gcctcgtaga ctacatcatt tctggccctg tggtggccat ggtctgggag ggcaagagcg 120
tcgtcacaac tggccgcaag atcattggcg ccaccaaccc cctggcttct gagccccgga 180
ccatccgtgg cgactttgct gtcgacattg gcaggaatgt cattcatgga agtgacagca 240
ttgagagtgc taataaggag attgccctgt ggttccccga gggccctgct gattggcaga 300
gcagccagca ccctggatc tacgagaagt aaacatggaa aggttcacat caaaccttga 360
gagccagagg aagcatgtca ccatttgtgc tttagcaatg ttttcgaaaa gattatgatc 420
tgtatcttg 429

<210> 54892

<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-E7

<400> 54892

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gcatggagcg gccaacctga ggcggcgcgc ggcataccat accagcagac catggcgggc 120
ggacgtgtat tgccgtagag acacagattc ggcaaggaat cccgacgtta tgtgcagagg 180
ttttgttatg tgcgtacgga ccagagaagg agagacggta gctgctgccg gctgcagagt 240
agcaagcatc ctttgcggtg tactgtagtc gcagactcgg tagcagagca gatggatcgg 300
caagaagctt ctggtaggca ggcttttggg tttcctcagg ccccgaggag atgctcttta 360
cctatgagca ccctntttgg acgtgctggg agctggatgt gtatatacac tgaccgtcnt 420
tgtacaaacc gagagggttt gataataaat aaataaat 458

<210> 54893
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-E8

<400> 54893

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gaccaccagt acatcctccg ggcgggcgcc atcaaggctc tcggctcctt caggagcaac 120
gcgtgatgag cagagctaaa gaaaggcctt cgctggactg cgtgctggag caacggcgat 180
cgatcgatct agcgtgggga gaggcggata ggcgggcgcg cgagggagga gaataagttt 240
gtgccggtgg cccggtctcg tcggctcgtt ttgttccagc atgcagctgc gtcgcgttcg 300
tgtgcgtgcg tgggggtctc cttaatttcc ccggcccctg taatcatcaa tcaccatgtg 360
tgcgtataat atctgctgcc aaaggatcga ttattcccc cccc 404

<210> 54894
<211> 245
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-E9
 <400> 54894
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 tgtttgcaaa tatgtacaaa acataataac atgtgtaggt tttgtgaatg attttgttgt 120
 ggtgcttatt gatggtttat gtgatgtgga tcanaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg gaaaaataaa 240
 aagat 245

<210> 54895
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F1
 <400> 54895
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 agtgccgaga ttacaccctg ccattgagcgg cggtaggttc tccaggtcgg atttgctgca 180
 tggcatgccc gagtatcacc aaagcgcgag ctcttgtgtc gagcgagtcc gtgtctgtcg 240
 tcagtcagtc tctatgtgtt gcccatagta aacaaagaca tgcgagtacc agacatgtgc 300
 aactctagta gcatgggtgcg tgtatcacta ggtacgcgta ctctgtatcgt tgtgttcagt 360
 tctgggtcta tagagatgta gccctgcatt gtcgaaataa atactgtgtn cactcgttcg 420
 tgaaatg 427

<210> 54896
 <211> 470
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F10
 <400> 54896

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 tcatgccaac cagctcgctc aagccaagtg ttgaccggaa atgcgtatag gttctggatt 180
 attattttta gtgtatatag gatgggtgatt gttcagcaaa gtttgctcaa gtaaaaaaaaa 240
 aaggatgatcc tcattcctcc tctgttttta ttgtgattat tatttttagt gtatatagga 300
 tggatgattga acagcttgca accttgcaact tgcagcatat tccatccact ggaaataatt 360
 ttctgcagt aatctgcata gcgcaatcct tgagtaatct gatcgatata agagcagcat 420
 gtagtacctg gacctgatct tcttctttta nggaaaaaaaa acaaactaca 470

<210> 54897
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F11
 <400> 54897

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 aggggaagaa ggggtgcggcc gggcgcaagg caggcggccc caggaagaag tcggtgacgc 180
 ggtccgtcaa ggccgggctg cagttccccg tcggccggat cgggcgctac ctgaagaagg 240
 gccggtacgc gcagcgcgtg ggcaactggcg ccccgctcta cctcgccgnc gtcctggagt 300
 a 301

<210> 54898
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F12
 <400> 54898

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 tggagacgag tgccaaaaac gccatcaacg tggagcaggc cttcatggct atggctgcat 120

ccatcaagga taggatggcc agccaaccag ccgcggccaa cgcaaggcca gcgaccgtgc 180
 agatccgcgg gcaacccgtc aaccagaaga cgtcttgctg ctcgctctaa gattgcctca 240
 tttccttggc tccttgtgac tatttctacg gtttgtgcgc gcacgcaa atgtatttgc 300
 tattcctgat agcatctatt cgttggccag atgattagag agctgaaa atattaagaa 360
 caataccata gagagaagtt cctcagtgtc ctgcagctt aaggagcaaa cagcaacact 420
 ntaccttcgt ttttatactt tattat 446

<210> 54899
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F2

<400> 54899

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 agactgttgc ctcagaagct gctgctgctg ccctgcccc tccagtgtg aatgctgacg 120
 cttgcagcat ccattctaag gctttccaag attgtctcaa caactatggc agcgagatca 180
 gcaagtgcc a gttctaccta gacatgctga acgagtgccg ccgtgggtgt gtgtctgcct 240
 aagctgcttc tgggggttatt cgtggatttt ctttcggtga tgctatctca ttaataagat 300
 accgtgaaac ttttgtctcc acagcttgaa gctaaacttc ctgggattaa tacattttgt 360
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<210> 54900
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-F3

<400> 54900

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 gcctccgtcg gatgcgcaag caggaggcgg acgcgcggcc cgctgtgcct ccttgcgccc 180

ccatcgcccg aggcagaccg tegtgtctgc ctgtccatc cggccccgtc gtcgaagagt 240
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gcgcccggcg cgcacaacct catgtcagct ttcgtcgtg cgatgcccac ggccggcggt 360
ngtgtcctc ctactncacg cccacctttc gccgaccttc agctgcgcgt cgtgatgcag 420
cgagactcga gcttgcggtg cctgtacgcg tc 452

<210> 54901
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-F4

<400> 54901

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tcggcatctc ctctaagcca tgtccatcat gaactccttc atcaacgaca tcttcgagaa 180
gtcgcgcgcc gaggccgcca agctcgcgcg gtacaacaag aagcccacca tcacctcccg 240
tgagatccag acctccgtgc gcctcgtcct ccccgngag ctgcgcaagc acgccgtctt 300
cgagggcacc aaggccgtca ccaagttcac ctctcctaa gctgcgtggc ctccgcttgc 360
aggcttcctt cgtatgttcg cgtgtcttgc tgtagttagg tgctgctgtg tctggtc 417

<210> 54902
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-F6

<400> 54902

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tgatgggaag cattgttggg gtctacaacg gcaagacctt caaccagggt gagatcaagc 120
ctgagatgat cggccactac cttgctgagt tttccatctc ctacaagccg gtcaagcacg 180
gcaggccccg tatcggtgcc acccactcct ctcgttttat tcctctgaaa tgagctgtta 240
cccggctttg tagtctccca agagtccggt ggcgatgttc attcagctct tctacttggt 300

ttgaacaagt taaatgcccc agacattttg ttctgttcca ttccagctca agaattcaaa 360
gctaagcatt gcacacttta tgcttgtttg tggaagtatt tgagttaatc atatctaa 418

<210> 54903
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-F8

<400> 54903

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ctccaccggc accggagcag ggggtaaggg gaagaagggg gcggccgggc gcaaggtcgg 120
cgggccaagg aagaagtcgg tgtcgaggtc cgtgaaggcc ggtctccagt tccccgtcgg 180
ccgcatcggg cgctacttga agaagggccg ctacgcgcag cgtgtcggca ccggcgcccc 240
cgtctacctc gccgctgtcc tcgaatacct cgccgctgag gttctggagc tcgccggtaa 300
tgctgccagg gacaacaaga agactcgcat tattccgcgc cacgtgcttc tggcgatccg 360
gaacgacgag gagcttggg 379

<210> 54904
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-F9

<400> 54904

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cagtacaaa gagagaatat ccattatctg agtgaggagg ttctccgctt gcaagaatgc 180
ttaagcaaat accagagaac tgctggaacc actcctcagg ttgatcttgc ccatctttta 240
gcaactcgtg atcaagaact ccgagcactc actgctgaga tgaatcaagt gcactccgaa 300
cttcaacatg cccgtggttt gatcgatgaa aaggattcag agctccagcg tatccgtctg 360
agcaacaacc agtatgttga agaaaacgat aggctcagag ctattct 407

<210> 54905
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-E3

<400> 54905

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 aaaatgagcc gtagagaaag aaggaaggct tctcagattg agcgggaaaa ggagcgggag 180
 gcagcacgtt ctgttggaag ggtatcttat cgtgatcctt ataggaaca aaggagaagc 240
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 ccatccatt ctaggcgtca tggccgtggg atacatgctg aaagcaatta ttggagcaag 360
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<223> Clone ID: LIB3088-043-Q1-K1-C4

<400> 54906

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 ttgatgatct cgacgagatg atatattggca agaaaggagg tagcagctcc caggatccga 180
 aaaagccaga tccgaagaag gatgacctga tcagctttta attacctttc cataatcgca 240
 accagtactt gctatatttc tgggtgctgta cccactcggg agattgaaga ttcttattcg 300
 catacgattc ataccggttt gttcagttaa gtcgctacac tttggcaatc ttgtttcatg 360
 gctgggtccc atgaccatga at 382

<210> 54907
 <211> 337
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

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 tgggtgaatgt gccggacccc aaatcgttat cacctaaata accagtcaag tcgcaagtat 420
 gaatggact 429

<210> 54910
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C9

<400> 54910

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 agcgtaaaaa caaaaacaat accacatcca accactttta taaaccaacc tataatccca 120
 ttctaata 127

<210> 54911
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 54911

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 ggggctcat cggctacgac aacacgctgt ggaacggctc cgtcgtgctc cccgacgacg 180
 cgcccatgcg caagtacatc cgcttctacc gcgacttcgt gctcgtcctc aacaaggcgc 240
 tcgccgccga cgaccgcgtc gagatctgcc agtccccgt cggcgacggc gtcaccctct 300
 gccgccgcgt caagtgaata catgccctgg cctggcctgc cccaccaccg ncaccgacgg 360
 cgccgncggc cgcattctca ttccaatcat aatagacgac ccgcagcatt aatta 415

<210> 54912
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-D10

<400> 54912

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aagtggcttc agcatctctg accctgatct cccggagata tcccctggag ggggtggcat 180
gtgtggcggc cccacggaca cgttgagctc gtcgggtgttc aaccagcttt ccgtcagctc 240
catcggctcg cacagtccag gaggcaaacc ttccccttcc ccatcaggca tggaatgtcc 300
gccgctgctc ctccacaagt cgcattgagct caagcggagg tcctcttgaa ctgacaaatc 360
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gaa 423

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<210> 54913

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D11

<400> 54913

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tgccgccgctc catttgatcg aattcccgat ggccgccaag gccgagaaga agcccgcgga 120
gaagaagccg acggaggaga aggccgagaa gaagcccagg gcggagaagc gcgtgccggg 180
caaggagggc ggccgagaaga aggggaagaa gaaggccaag aagagcgtcg agacgtacaa 240
gatctacatc ttcaaggtgc tcaagcaggt gcacccggac attggtatct cgtccaaggc 300
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<210> 54914

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D12

<400> 54914

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gaaatgccag gatatgagcg catgttcaca gacttcttac taagtctcgc acaaagcaag 120
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acgagatggc atataacggg ggcaggtatg cttccccacc gcgccaatgt acatttgctg 240
gagacataag cataagcggg aggcttgagg aagttggcaa gtctcagtgt gtgtgttcaa 300
aatcgggtggc acatgctgga ctggagtagg aaataaccaa agaaacgctt ggatgcgctg 360
tactcatgtt gtaaaatgtt taactgaatg aacaccttcc tcgtgatggc tccttccatc 420
gtaatttggc aaccatgaga attaattctt gagctttgt 459

<210> 54915
<211> 295
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-D6

<400> 54915

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aaaaaaaaagg ccgcccgttc aaaagaatcc aaattaactt ccccttcctt tcaacctaata 180
aaccttttta taaccccccc taaatcaaata tcaactgccc ttttttaaca actccttaac 240
tgaaaaaacc ctgcctttac caaactaaat ccctttgcac caaatcccct tttcc 295

<210> 54916
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D7

<400> 54916

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cacgaagcag acggcgagga agtccaccgg cggcaaggcg ccgaggaagc agttggcgac 120
taaggcggcc cgcaagtctg cccctgcgac cggcggagtt aagaagcccc accgcttccg 180
ccccggtacc gtcgcgctcc gggagatccg caagtaccag aagagcacgg agctgctgat 240
ccgcaagctg ccgttccagc gcctggtgcg ggagatcgcg caggacttca agaccgacct 300

acgcttccag agctccgctg tctccgcgct gcaggaggcg gctgaggcct accttgtecg 360
tctcttcgag gacaccaacc tctgcgccat ccacgccaaag cgcg 404

<210> 54917
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D8

<400> 54917

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aggtacaatt aaatactaac aaataacccc tcctatagtt ttacataaat tcaaatttac 120
tgcccccttc ttttccacct tttattttctt ttaaaatccc tccctaaatc caacttaa 178

<210> 54918
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-D9

<400> 54918

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ggatcactcc aactatgata gtagtgtata gctacacatt t 101

<210> 54919
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-E10

<400> 54919

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agatatatca gtggatagtg ttttttgtat tttcgttttc ttttccaatg tgtgttgggt 180
cttgtggatt atcctttttt tctaattctaa tacaatgaag aggcattgtct tttgaagctt 240
c 241

<210> 54920
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-E11

 <400> 54920

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 taaaaaaata aaaaaaaata aaaaaaataa aaaaatacaa aaaataaaaa aaaaatatat 180
 taaaaactaa aaaattatac tttttaaata aatataatac agtgacaccc ctttaaaaaa 240
 ataaaatttt aaata 255

<210> 54921
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-E12

 <400> 54921

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 gagaggaaga tcgctaggag ggacgatagg ttggcccaga gtccacgaga aataacacca 180
 cctgtctcat ccacagcttc agctactggg gcacctacta aagcaccgaa gtgaagtatt 240
 gaaataaagc tgtagctttc tagtccagta ctgcactctc ttctataagc tctagtctaa 300
 tcttgagcgc cctgaactag cttgctgaca tataacttag tgtattgata aatgcgacta 360
 tcacatctgg attattctgc tggattttct ggtggat 397

<210> 54922
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-E2

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 gcccctgctc ttctccatcc ggtcgaaacc cgtcgatcca tccccgtcac acgcacggac 180
 ccaaggttga agacgaccca attattttgt gtattttata aaatactttt tgatgcaatt 240
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<210> 54923
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-A8

<400> 54923
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 agaacacaga ttgctccaaa ttcaaggaca gtcattggcta ttctggggcc agctgatatg 180
 gttgatgatg ttactggcgg tctgaagctt ttgtagaaaa ccaccttgct agcattttca 240
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 actgatgtgc ggcagaagaa tgaaccttgg ccccgttggt tgacctgagt ttcttgtcca 360
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<210> 54924
 <211> 157
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-A9

<400> 54924
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 atnttttga ctcaacgaac tatacaatac attccagcat tcacctgatt tggagaagct 120
 cactttgggc cgntgcaagt tctcaaaaga tcccaag 157

<210> 54925
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B1

<400> 54925

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gccgccgaga agaaggacag ccttctcgcc aagctgcacc gcaccagctc cagttccagc 120
tcgtcgagcg acgacgagga agaggaggtg atcggtagga acgacaagaa gatgaagaac 180
tagctgaaaa gaggatgaag aactagctca gcatgcggtg tcgagttggtt ataacggttc 240
tctttttggtt tggttcgtttt tttagggaaa caaaaacatt tattactgta gtatcagaaa 300
ccgtaagagt aataaatttg ccaggatttt ttcttcttaa 340

<210> 54926
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B10

<400> 54926

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cataggaatt caacagctag tatgttggtg tgggatctat atgaggtatc aaaccttaac 180
tacaccctct acaaatcaat atttcttgat tttagcatca taaaatgaat gtatttgccg 240
tatttatata ccgacgtgac tttgaaaaac atgtatgtac acaatttaaa tgatt 295

<210> 54927
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B11

<400> 54927

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ccagagaatc gatgactggg ttcaagaaat ggcgagcagg tgggatgaga ctgcaaaaagg 180
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 cgctgctttg atttgctagc accgtgagca aagagaaaag tgaatggcag attaaatctg 300
 gatgtactat gatctgctgt acattgtgca cttgtgtaca gcagctctga tcaagccgtc 360
 cttttagtaga aaatgaacac cgtcttaaata catgatatca tgtttggagc 410

<210> 54928
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B2

<400> 54928

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 gtcattatca gccgatgaca tcgtagcgaa tgcccaacgt ggacctgccc cagcaaatgt 120
 tcttgctccc atctacgatg aactgtgatt cgtttgcctt ctgtattgtt aaggtttagtt 180
 ttgcatgtgg ctattgggat tttgtccagt gtgtgggtgt catgtaccga tctgcgattc 240
 attaaaataa tttcaaatga aaaatagtta actaacaaaa aaaacagaaa aatcaaaaaac 300
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<210> 54929
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B3

<400> 54929

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 cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 180
 caaggagctg gacggccgca acatcacctg caacgaggcc cagtcccgcg gcggccgtgg 240
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gcgccgtgat ggcggcggcg gctaccgcgg tggcggcggc tacctgtggtg gcggcggctg 360
ctacagtggg ggtggcggcg gctaccgcgg tggcaaccgt ggc 403

<210> 54930
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B5

<400> 54930

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cggcaagtgc aagcatgggc acggccacca cggcaagtgc aagcacgggc acggcaagtgc 180
caagcatggc aagcacgggc acggcatggt cggcggcggc aagttcaaga agtgggaagtgc 240
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ataccttttc agcgttactc atccttcacg tgtatttcca gtaatccagc ttgtggcgag 360
tgacataatg ctaataagtgc acataaataa ccattgctga tatgctgtat atgttggtct 420
ttgggatgga gcgctctgaa gattatattc attggcaat 459

<210> 54931
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B6

<400> 54931

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cgtcggcggc gacctctccg tgggtgtacca gtgcgccatc caggcgtacc aggacacgct 180
ctacgtgcac tccggccgcc agttctacgc cgacgacgac atcgccggca cgggtggactt 240
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ccctcggcag aaggacacgg tgacggcgc 329

<210> 54932
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-B7

 <400> 54932

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 cggacgacat caaaaggctg gttgatgcac tcacaccatg gctccctgtc aaatatggta 180
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 gacgcctacg tccttcccca ttataagca aatattactg ttttgttaga tatcaatgtt 360
 gaaataggct tattattatt attattagc 389

<210> 54933
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-043-Q1-K1-B8

 <400> 54933

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 gctaggaaaa acctgctttt gtgttcgggt tcacgtcgtg tctacgtgg cgcgccgggc 180
 cccgcctagt aaaggagcgt aggagcgtcg ttttgtgttg tggtcgaata aataatgtgt 240
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 ttacagcaca tcggtggggc tgggccgtag agctcctgtg tcgtttaaat atatgtgtac 360
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<210> 54934
 <211> 392
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-B9

<400> 54934

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ctgcgcgaca acatccaggg catcacgaag ccggcgatcc gtaggctggc caggagggggc 180
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accgccatgg atgtcgtcta cgcgctcaag cgccagggcc gcacgctcta cggcttcngc 360
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<210> 54935
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C10

<400> 54935

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gcgcgtgctc tactgtcagc tcaccattct cgtgagcgca tactgcggtg ctcgggctgt 180
ggcactggat gggctgtgga cgatactact gacatgatca ctgagctctt ggcggaatac 240
aacactggtg gtgacctagg agacgcctgc agatgcatgc gtgatcttgt gatgcccttc 300
gtcaaccatg aggcggtgaa gatggcactg gtcat 335

<210> 54936
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C11

<400> 54936

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ggatttgctg atgataccac cggcaattgc agttgctatc tctaagactc ttactggatt 120
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 tt 182

<210> 54937
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 54937

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 acaagctttt tggtaagcgc atgccacccg aggctgtcga tctcgtgtca aggctgctcc 180
 agtactcacc gaacctgcmc tgcactgctg tcgacgcctg tgcccatccg ttcttcgatg 240
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 tcacagcagc cgaactcgaa gggctccccg ccgagcttgt ccaccggatc gttcctgaac 360
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<210> 54938
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-A7
 <400> 54938

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 aacatttaca ccacaacata ttgtgccttc ttgtcacttc catgtccatt gatttcatac 180
 acgtgatttg gttggcgtgg cctatactga agatgaaact aatgcaatgg ctgctgaaat 240
 tgaggtagtt gatggctcta atgatgacgg tgaaatgttc acccgccctt ttaaactgag 300
 cgatcgctta ccacagtctt atgcaaacga gcaatcaacc cggtttgcta atggtggtgc 360

atacccttcg gaccttagtc ttatcacaaa tgcaaggcac aattgtc

407

<210> 54939
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H10

<400> 54939

cccacgcgtc cgtttcaaaa ggcttctagt gaacaggata ttttcaattc ctagtgagaa 60
cttgtgtaac agaggaatcc aagtatttca tatcaaagtt taaaagtctt atcgaggggt 120
cgcggtatgg atgtatcctg tttcaaataa tttctcctaa tgtatgaatg aaaacggtta 180
atggatgccc cagtatgcat tgcttttc 208

<210> 54940
<211> 363
<212> DNA
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<223> Clone ID: LIB3088-042-Q1-K1-H11

<400> 54940

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tgtgtttgtg taagctagca aacggttcca gaaagctttt gtttaagattt tgatgacgct 120
aagaggattg atgctactat gctgtactca agattccatg ctgcattgcy atgctaaatt 180
aaagaacctc tgctacctta ctttaaaaaa aaaaaaactg aatgagggca agttgctatg 240
ccaaaaacgt aatcaatata acgcccggac tgtacttacc caggagaaga ctgacttcaa 300
ctagtgcata aactgaagca catggtgaga cggactgaga tacgcacact taattgccaa 360
cca 363

<210> 54941
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H12

<400> 54941

<210> 54944
<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-042-Q1-K1-H5

<400> 54944

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gcctctggcg ttggaagcga aggggaccgg ggcattctgt ggctgggtgtg tatcatcttc 120
ctaccatcct aggacatcta attagtttga ttagtttctt ccccgttcta gtggactcgg 180
ttgctgcttt tggctttcac cgaatcctct ccaaagggtg cgctgggtgct actgttcctt 240
atggtgatga ttttacttct gaccatgatt gttacagcgg taaggctgtc ttaggatctt 300
ttaaccttta agcatggaga cgactntata tacatgtaag taaggatgaat aat 353

<210> 54945
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H6

<400> 54945

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gtagtaacca taagaaacat agacatgaag ttggtttgga agttgatgaa ggaaatgatg 120
tgtgccctgc tgtagcagac cctaattgga aacatgaaac tggagtaggt ggatcttttag 180
ggggagctgc agaactctgt atatgatagc tgctgtatca ttcagttggc tgtttgcaga 240
ttgattgatg atgatggaga atgctgaact ggtgtttatt atctcccttt ctgatttagg 300
agttttatgt gcagggcatg aagatcttcg gagaactcga gtgctgttcg gagcgctcat 360
ctgatataatt aaaatgctta tgattccatg aagagtttgt ggagcacatt tctgggatgt 420

<210> 54946
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-A10

<400> 54946

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gtagacatg accgtctgtg gcacccattc tgcccggatc tttatggacc tttacaccaa 120

ctatgtgcct aaaaccggcc ataactttcg tgcgctgtgc acggccgaga aaggcgtggg 180

ttagtccggg aagccattcc attacaaggg atccaccttg caccgcgtta taccggagat 240

catgtgccac ggcaagaact tcacccgaag gaacaggacc ggcgacgaat ccatctactg 300

atagaagttc cccgacaaga agataatgcg caagcacacc g 341

<210> 54947

<211> 256

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-A11

<400> 54947

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ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa tggggggaggg tgggaggtng taaaaaaaaa aaaaaaggtg 180

nntaatgggg ggggggaatgg ttgaaatttt aaaaataaag aaaatgaaaa agagtttgaa 240

agtacataaa taaaaa 256

<210> 54948

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-A12

<400> 54948

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ttccaaaaaa tagaagtga gatgtcattg ttttcagaga ttgagcaggt ggtctttcga 120

acgagagagt acaccgagaa gaccagaaaag aagctcctga aggaacgaaa tgcgattatt 180

gcagctcgga tggggcgatt gccgtctagg ccaaaccaga caggtgtagc cggaacacagg 240

cgctgatgtg aaaagcttgg atgtg

385

<210> 54951

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-A6

<400> 54951

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ggcggcctgt gacatgcacc ggccgcctgt agcgtcacgg ctgaggacta tacatttgga 120

gctcatatct cggaagaaaag aggagcgggtg aggtccagcc ccccgttgc 169

<210> 54952

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F4

<400> 54952

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aaggagacgc tgcaggggtga gaagctatcc agctccaact gcacgggtggc catcgtaggc 120

aggaaggagg acggcaccat cgagccgttc gagatgattg gcgccgcaag gatacaggaa 180

cttatcgact ccatggaggt cgccgaggag gcgcccgcgg aggaggccag ctccatgcag 240

gaggaggaga gggggcccaga agatgctgct gctgctgcac ctgcacccat ggacatctag 300

aagccccata tgaaccacc aacctcacgc tgcattctga gttccccaaa gactagactg 360

cttctttaga aaattgttgc gagttgtgac tctttgctta cgaagaactt ctctatg 417

<210> 54953

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F5

<400> 54953

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ggatatcttt taaattcatc gctctggtgt gtaataacta attaagaacg acaccttcat 120
tctaaggttg tgggtgaggca cttctatcta tgggttttgt atttggacca cgaatgttgt 180
aatttgtaaa ttttttttaa agatttatct 210

<210> 54954
<211> 317
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-042-Q1-K1-F6
<400> 54954

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gttttttttg tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
tttttttttt tttttttttt tttttttttt aaaaaaaaaa ataaaaaaaa aataaaaaaaaa 180
aaaaaaaaata taaaaaaaaa aaaaaaacca tttaacaatt tttttaaaaa accaattcta 240
aaaaagacca ataaaaaaaaa aaaacatatt ttttttttagc aaaaaaaaaa aaaatcccca 300
aaaaatagtt taatatg 317

<210> 54955
<211> 333
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-042-Q1-K1-F7
<400> 54955

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gggagagaaa gagggcgaaa tgggtgaagca caacaacgtc atccccaacg ggcacttcaa 120
gaagcactgg cagaactatg tcaagacatg gttcaaccag cccgcccgcg agcagaggcg 180
ccgcatcgca cgtcaaaaga aggctgtgaa gatattccca cgaccaactg ctggccctct 240
tcgtcccatg gttcaatgcc agactctcaa gtacaacatg aagtcaaggg ctgggagagg 300
ctntaccctt gaggagttga aggctgcggg cat 333

<210> 54956

<211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-F8

 <400> 54956

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 cgcgcacggc gacgccgggg gaggtgggag cgacggcggg agcttcccga ggggcggcga 180
 cgccgccgac gacagcttgg tgagcctcac catgaactcc acgctcatgt accagggcca 240
 ggagatggcg gcggcgctgg ccggcgacgc caggaaaggg agcggcggcg gccgagggag 300
 tccgtccagc ttgtacttcc ccaatggctt cgcattgagta tttaatctcc ttcattcaagc 360
 aagagcaatg cattttcggtt tctctctaca tatatccatc caaagatgat 410

<210> 54957
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-F9

 <400> 54957

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 aactgccggc tatcatgggtt gtattggccc tctgcttggt tctcatttcc ctttggagcc 120
 agtttctctg ttttgcgagg tcacacaagc cttatttgta gtattacaac acagaagctg 180
 gctgacccaa aatccgacac tctgggggca gcaacttaac aaaatgtttg tacgaggggtt 240
 tagagcccca cggtgcttct ttggataagt atgtttatta ccttgactt agctaggaac 300
 ctgcttatat gtaagatctt tgtgtacgac ggagaattgt cacagcggca taattctggt 360
 gcatcttgga tttaatctcc tgttctttgt tagaccggcc agtatgcagt agc 413

<210> 54958
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-G1

<400> 54958

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tggttgccag gacggtgtga cgaaggtgac atgcggcgcg gtccatggag atggggacgc 180

cggttgccag gatgacgccg cgaaattggc agcagaagcc atgggatcag atcgaaaccc 240

aagctagccg ataccagcta ctagaattat ctttgcttct gagagaatac atgtctgttt 300

ttcatcacia ctactagaat tcaagaaaat catcttgcta tagattggtg tctattatgt 360

acatggcact gaagttgcaa ctattcacia actgcacaga tgctgaaatt tctcttcttg 420

gttggtttat ttttctggac atgtttt 447

<210> 54959

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G10

<400> 54959

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ggcgttggtc gtggtagagt cgtccaccct cactcggagc ttgccgagag gcgccatggt 120

tttatgaatg gtgcattctg ctttggtatc ggggaattac cagtagttta ggcctagtat 180

tagcgcgggt tttgtcgtgc tgggtgttagc ctggttggtg tggtagcgtt ttgcttggtt 240

gttttggaat tggaagtggg ggtaaggctg gcttgcagat taacggaggt aggccgcctt 300

ttatcaccgc ccaattaagc atttgtgggg tctcatggtg atggcctctt tcagatgaga 360

tgttttgcgt gttacccaag tgtgttggtt gtaatgagcc ctattaagtt tgtgctggaa 420

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<210> 54960

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G11

<400> 54960

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 gatatatata caaatgatcc agatcttggt gctgtgctaa tgcatactgg ctattgctcg 180
 cctacgtgct gccctgcccc atctgccatc caagagcttg atgcaactgt tcaagttcta 240
 ccaccacaag agagttatac ttcaacattg aggaacaacg tacgctcacg tgcttgggggt 300
 gctgagattg gttgtagctt ccgcatagaa cgctgatgca tagttaagaa aggtgggtggc 360
 accattgatc ttgaaccacg ccttatgcac acattaactg tggagcctac acttgctcca 420
 gttgctggtg aacgcacaat 440

<210> 54961
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-G12
 <400> 54961

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 cggtggcatg ggtgggtatgg gcggcatggg tggcatgggt gatatggctg gtatgggtgg 120
 tcttggtggc atgggtggta tgggtgggtc tgggtggcatg ggcgggtatgg gaatggatga 180
 tttcgaagat gagagtgatg atgaagaaga agtgtcgaaa cctcaagctg cggacaaggc 240
 tgttgaggct gaggagacgg agtcagcggg aaccaagatt gaggcggctc agagcagttg 300
 aagatgctta tgatctaagc tagattgtat cctcatgtta attctgctga atcggaggac 360
 aaaccttaca tttatggtgc tggcaagtc cagtggcgtg ccatgaaaat ttacggtccg 420
 tctgttaact ggggtattcca gtgtcg 446

<210> 54962
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-G3
 <400> 54962

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gtcctgaata atgacgcaat gtcaacaagt gagcgtattc tccttcgcga ggatgctgaa 120
 tgctgtatct gtctatcatc atatgaagat ggagctgagt tatctgctct, tccctgcaat 180
 catcacttgc actggccttg tattacaaaa tggctgcgca tgaatgcgac gtgtccactc 240
 tgcaggtata acattctcaa aggcaagtgc agtgcattgc caacttattc tgacataact 300
 ctctgtacaca gcttcctttc aagtggcggt ctcaaagcaa tgctgtattc acagctgcgt 360
 tattaaatga cagtgatctg cgtttgtatg attaggatgt gctgatcacc tgcgatgga 420
 tgaaacctta tttacaat 438

<210> 54963
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G4

<400> 54963

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 tatgttacta ctctatatcc cacacgtgaa cgcaatatgt caaaagctgt atagccactg 180
 tatatgctac gaacgagagc aactgtacta agtcttagag ctgcatcgat aagtcctgaa 240
 tactgatatt gatgatgata catctaatac tgtattggtc acaactccta cctagccttg 300
 tggccacagc ttctccggga ct 322

<210> 54964
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-042-Q1-K1-G5

<400> 54964

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 tcgatgagga caattctcac gacgccagag ctgaaatacc tgctatgaag gattactcct 180
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catatgacta ccgaaatctt gactactggt tgaggactca ctcacaacaa cttgcttcct 300
gcacaaacac tcaatgagtt ccggaggaat cacatatgat acattgctat acagattggt 360
cttgttatct ggaatcctac tagtatagta catgttctac atgtcngttt tgcctgaaaa 420
aaaaaatnan annt 434

<210> 54965
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G6

<400> 54965

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gcacagcctg gcaagcacag gccacgcaac ctccgcgagct gcggaggtct actcgcctggc 120
ttccaagact acgtgcttcc agtggtctgct aatgtttgtg atgacctgca tgtttgtaat 180
ggtaggttctg ctgataaggg tcaattgaat gatgaggctg tagcaggcac tcaaatcgta 240
ctcacccttg tcattgtttc atgggaattc tttgtggtca ggtcatggta tttttc 296

<210> 54966
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G7

<400> 54966

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acgaagcact agccgtcgaa acgagagacc accagcagcc gccgcagcag cagcagacaa 120
gctctccgtc gtcgccaccg cctccagatc tcattcagcat ctgagtaacc ggaatcgaaa 180
acgttacgtt tcttcgcaaa aatccccgct tcagtgtagc aagcttaggt cgtaatttta 240
ggtttgcaat aattaagttt gtttggcctc ctgtgctgta catatccgag tttgtttggt 300
ggctggttgg ttgtttccag tctgtcatgt ttcatttgcg ggtgccgtgg gggaggagtc 360
tgtagcgaag tgag 374

<210> 54967
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-G8

<400> 54967

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 agatcacttc ccttgcacca agcagcatga agatcaaggt cgttgcaccg cctgagagga 180
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 agggtttcac aagttcctcg tcgttaccta gtctcaaatt atgtcccctc cattttctga 360
 gatattgtgtg gcagatttgc atgatacgtt tggttggttc catcggacct gaagtcttct 420
 tggggatagg gctcccc 437

<210> 54968
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F3

<400> 54968

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 tgtgaagcct gattctttca aggcgatcaa cgacgaaggc atgcccattgt accagaggcc 180
 gttcatgaag ggcaagctgt acatccactt ctcggtggag ttcccggact cgctgagccc 240
 ggagcagtgc aaggccctgg aggctgtgct cccgcccaag ccggtgtcgc agtacaccga 300
 catggagctg gacgagtgcg aggagacgat gccctatgac gtgaacatcg aagcggagat 360
 gcggaagcgg caacagcagc accaggaggc ctacgacgag gatgaggaca 410

<210> 54969
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D6

<400> 54969

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agaaaaaatt agaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aataaaaaaa aatgggagaa ctttttaaag tttacaattt 180
taatattcaa taattcaaat atattaactt tttaatttta aatccaattt taaatcaaaa 240
gcccaaattt ttaaa 255

<210> 54970

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D8

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ggctatgtgg atggcatagt catctttgag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa caacattaaa atgaaccaa 240
aaagaag 247

<210> 54971

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E1

<400> 54971

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aagaaggcgc tggactgggc catcgacaac ctgctccacc acggggacac cctcgtcgtc 180
gtccacgtcc tgcaccacgg cgcggaggag accaagcaca cgctttgggc caagtccgga 240
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cgccccgacg ccgaggtgct cgacgcgatc gacacggcag cgcgccagaa gcagctgaag 360
 gtggtggcga agctctactg gggcgacgcc agggagaagc tctgcgacgc cgtcgaggac 420
 ctcaagatcg 430

<210> 54972
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-E10
 <400> 54972

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 gatacatact gtgctgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaaaa cataaaaaaga aaaaacaaga 240
 accaaaaaaa caaaaaaaat tattaaaaaac aaagctgacg atacaacgac tgaggggctgt 300
 gagaatcgac caggatttta aagaacgacc ttagttac 339

<210> 54973
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-E11
 <400> 54973

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 gtaactgtgt agctataaca attattgtct aacgttgtcc ttgttactcc acccgtttgt 120
 gttggattgc catcgaccat catatgaaaa cttatttttt ttccaatccc ctccaatcca 180
 tgtgggatga g 191

<210> 54974
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-E2

<400> 54974
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 gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaatcataa ttataatata gagaaaacta aataaaaaaaaa acttgaccga 180
 aaaattacaa cgtaattact ggaaaaaccc taactttccc aaacttaata caacttgacg 240
 tacatactca attttatagc t 261

<210> 54975
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E3

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 ggccacatag tattcttgct attaaagcaa atcagttgcg acctttgaag tacgaggatt 120
 tcaagaacgc tatggcggct atcacgcaa gcttgcataa gagcaaatgg gactagcttg 180
 agaaatggaa cgaggaatgt ggttcgagct gacagcggct cgcactgact gtgcctgatg 240
 atgatcaagc ggtcctatgt ccactctgtat atatgattta tgtctccac cctgtggctc 300
 acaacacacg gggtcacacc atgctcccat tgatgcgtcc tcgttgggct aggattaca 360
 acatcgacag aatcagaatg taaaggtata cttctggcaa cgggctatac agccaatgag 420
 ggctagtgtg aaacac 436

<210> 54976
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E5

<400> 54976
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 gaagaagctg gcgaagaaga tgcgccagaa ccgccccatc ccctactgga tccgcatgcg 120
 cactgacaat accatcaggt acaacgcaa gcgcaggcac tggcgccgca ccaagctcgg 180

cttctgagcg tcgggattgg cgggctgctg cgtcggaagg ctagggctcta agagctatct 240
tctgttttat cattgtctct gtttctgtaa gctagcaagt gatgctgtga tgcttttatt 300
aagattctga tgagtgggtga cgtaagaga aaattggcag tactgtgttg tacccaaga 360
ttccttgacg cattgctatg ct 382

<210> 54977
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E6

<400> 54977

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ttgcagatgt gtggcgaaaa gtgagcaaca atgtgcataa agagaaagaa aaggaataaa 120
caatgctatt atcttgaggg cctgggtgcat ttggcggcaa agaaatcgta cggtttttga 180
aggagatttg ccggctgtta gcaagggtgca gcaaagtttt ctagaagagc taacatgttt 240
ggctctgact ggggctcatc accttagcat tttaggata attgataccc ttagagcggg 300
cggattgggc tctcttgatc atatgtaatt tttgtttcag tttcgatgtg gtgtgggtga 360
tgatcttgct taacaggata ctcatcttgt aagactttct tttctctctc taaatataaa 420
taccggacgc gttcgaag 438

<210> 54978
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-042-Q1-K1-E7

<400> 54978

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gtacgatgct aataacctgc ccaaaggaaa attaagtacc aaggaggttg gtcaaacagc 120
acctaacatg gtcgagtcta aggtcgctga cgatgggtgtt gttgttcccc ttggcgaacc 180
caaacaggaa ccttcacaaa ggggtggctt gctttataat gagtacatag tgtacaacgt 240

agaccagata agaatgcggt atgtcttaca tgttaacttc aatttcaaga gacggtagat 300
 gttgcaaaga gctgaaactg ttgctgagat cttagcagaa catatgtgga cttatagcac 360
 caggtgcncct cagcctcatt ttctgagcaa attggtagcc ctt 403

<210> 54979.
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E8

<400> 54979

caagcaatct cttcttgact gccgagatgg ccaatactct atctccatgg ccatggttcg 60
 attgcgttcg agagtgtgtg ctgtggcagt ttgatttatt ggatatatcg gctcttcacg 120
 catcgagaat tggtttttca tttgtgatta tactgacgga atctatcaaa gtgctcaaga 180
 tgctgctagt agaccaaggt gttgcaggac atttctttgt catgatttgg gatcctgggtg 240
 gaattgatgc catgtatcgg cttgagggca agccgaattt taagaagggg agaatgtcag 300
 cagcccgaca tctgaaccat gagccactgt cactgtctca accaggaagc tggaccaaga 360
 cgagcatgta gctgatgaag atactttc 388

<210> 54980
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-E9

<400> 54980

cggaccctga tgggaggcgg acagagatca tatgtactgc ttgtggagga cacttggggc 60
 gacatattca aaggggaggg gtttaagacg cctaccaacg agcgacactg tgtaaacagc 120
 atcttgctta agttcaatcc gtcccccgag gaagcctgac ggcagatgaa ctcccaatct 180
 gtaactcaac aacagaatag atctggactt tgtttgacgc tttcacattg cgtagagagc 240
 tatgagatcg aatttgtcat tctcggatc atttgaata tgatgtgaaa aatgcaatct 300
 caagtgctgg tctttggtga taaatcaatg tacctcagtt atagatgaat aggccatgta 360
 tatgctcatg ctcaaagaac taacttagaa gcagaaccct tgttttgttg gtct 414

<210> 54981
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-F1

 <400> 54981

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 caagcaatcc aagaggctcc gtagagctct ttggatgaag aatgccaagc ttctagttgt 120
 gttgacagtt gtcatagtag tgctgctcta cttgatcatt tctgctttct gtggaggcct 180
 taccttgta tcatgcagat catgagtaac acaccagatg gctttgcccc tcccttaaat 240
 ggagggtaga acaccatgga atgatgcctg ctgtgttgag caccggagct ttcggaggc 299

<210> 54982
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-F10

 <400> 54982

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 aacatggtga acaacagaga gagggagaag atttttgtag ccagccagga gaaattccac 120
 gccggcgcag acaagcagta ctggaaatcg atttcggatc tcatcccaca tgaaatagcc 180
 accatcgaga agcgggggaa gaaagacaag gacaagaagc catccatcac agttgtccag 240
 ggccccaaagc ctggcaagcc caccgacctc tcccggatgc gccatatctt ggtgaagctg 300
 aagcatgctc cgccgccaca tatgttgag cctccaccac cagcacctgc tgctaaagag 360
 ggacatagg atggcagcgc caaaggtggt ggaaaggatg gtgccaaaga aggcggcgcg 420
 gcagccccag caaa 434

<210> 54983
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-F12

<400> 54983

gtgcgcgcat ttttcgatgt gcatgatcat taaggaagtc acccaggagg catccacctt 60

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gacctgagcg accgctacca caccactgt gaccaaggc tgaacgcctc ccagtcacctg 180

gagctcgctt tcatcattgc agagaggctc aggaagagga ggatgcggtc ggggctcaac 240

aacagcttgc ctctgccacc actggctttc taagtagccg aagctgaaca gagaaggtag 300

agggatagtt gcggcgactc gaaagattac gcatgtttat ttgttgatgc ttggtgtgga 360

agactgggtg gtgctcttgg cacaagttac atgctgggga gctataggag ggtacctgtt 420

gcgttgtgga agacagtagc tagta 445

<210> 54984

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-F2

<400> 54984

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gttggaccca aaggagagga acaacaccga atacaagctg gacacctaca ctacggtcta 120

ccgcaggctg tgtgggaaag atgtggtctt tgagtacctt atggccgaaa atgcataaat 180

atgacgcccc gatatcccca ttttattttg ttgaatctgg atgtttcttt ggggtctcaa 240

ctagactgct ccgtatgtac ttcaaaaacc atagttttga tgccaaagtt gttgcctagg 300

aatttggtac tcgggaattg gtagcggacg tgaacaatgt taagttttga gcatttaaat 360

ttacctttgt catgactaaa aaaaaccgc aatagtataa g 401

<210> 54985

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B9

<400> 54985

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gcgcaagcga gctcgccacc aaagctgcga ggaagtcggc gccgacgacc ggcggcgtga 120
 agaagcccca caggtacagg tccggcaccg tggcattgcc cgagatccgg acgtaccaca 180
 agagcaccga gctggtcacg cggaagttga ccttgcagcg cctggtcctt gagatcgctc 240
 aggacttcaa gacggatctt cgggtccaga gccacgccgc tctggccctc caggaagacg 300
 ccgaggccta catcgtcggt gtgtttctagg acaccaacct ctgcaccatc cacacctagc 360
 gcgtgaccat catgcccac gacatt 386

<210> 54986
 <211> 213
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C1

<400> 54986
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 accaaaaaaaa cttaaataata aaaaaaaaaa atataaaaaa aaaaaaaaaa aaatatcaaa 120
 atctaaaact aaaaaaatatc cgtataaacc ttaaaaaggc caaatttaaa tagtcaaatt 180
 tcatatgtta actacaataa tcatgctaata aac 213

<210> 54987
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C10

<400> 54987
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 ggaaccagct acatgttaac actctcatcc ataccagcca ataccgaata atatcatact 120
 cctagaaaagg cttcacaggc cgctatatac caatgtattg taggaaaaaa catcttgggt 180
 tacccaagct aaaccacctt gaacatcatg gcacctgtct ccaacataga caatatgaga 240
 gaagaccgca tagatcgctg ttctgaacag gggcatcaac ctacaatgag cgaagggggac 300
 ac 302

<210> 54988

<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C11

<400> 54988

cgaaatgatc tcactaacat attcaaggat ttcatttcga caatgaaagt tgagaacaga 60
agttacaatg tc 72

<210> 54989
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C3

<400> 54989

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cttcatgttc tttctgctaa ttgccactgc taatgcgac atcgtctcag ccctgatgtc 120
actggccgct gctggcggat tcttggtat cttctttgct tgcttggttg cagtgtatat 180
tgagcagta ggagttgcta tctttgccat ttctgccatt gtcattcat cagttgttgg 240
agttatgatt actactggtt gggttgggtt cttctggatg atctggttca ccgcaaggaa 300
gagcatggac ctgacgaagc attccatcag catgacgagc tcggcagtc aatcctattc 360
cgcgccccgc caagtgaagc ataagcatgt cgactgaggc tagttgggtg cgtcttgctg 420
cctcgggtcg atctgtgtg 439

<210> 54990
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C4

<400> 54990

gtttctttta ttaaagggtc gtccgagttt cttctactaa atggtgggtc agaccgagtt 60
gttggttttg tttttggtct gaattgaata gagtgtctgc ttgttaagac tggaatgtgt 120
tatgtgcctt tgtaagact ggaatgtggg aatctttgag tgattcggca tgtaactaac 180

tggaggccac gagatagttt gacgcaaggc ctattacccc cttggaggag agtgacgatc 240
 aaaaacaaat aaactaacia taaacaaaaa ta 272

<210> 54991
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C5

<400> 54991

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 ggtcactggg actccagtgt gacaacttga aaacttcgct gtccaagaaa gagtctgaga 120
 aagacagcct tgctctcag gttctgaagc tgagaagatc cgttgaaacc cgggaaagg 180
 cgaaggcaaa tgggtcaaatt tcagatgtga aggacaatca gcatgctaata aacaagcgca 240
 ccaagcacia taccggctcc actgggagca ttgctgcgct gccaggcacc aacagacaag 300
 gcgaagacgg tgactgcaat ggtcctgaca tgaggaactc cactgaccag tcagcaaagg 360
 agctggcctc actgaaggag aagaacaggg cgatcg 396

<210> 54992
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C6

<400> 54992

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 gcaacttgag ccagataaaa acgatgatgg ggtgcaagca acgcagcagc agctagagct 120
 caaaaaagag aacactgaag caagagcttc aacatgttcc acctcccaag agcttcaaca 180
 tgctctgctc cgggtggtca agaggcaagc gtgcgacccg ccccgatttt gattccaagg 240
 acgaatacaa cattccccgc ggactagcga tcaccgtacc tctgtgcct cgaggtggag 300
 ccgcccgtct gcgactcgcg cagaccacat ctaacgcgtg tggcgctcgt ccggctcacg 360
 ggcaagcacc ctttcaactt aaaaacctcg gtgtcctggc tgatggggca cga 413

<210> 54993

<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C7

<400> 54993

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gcccgaacccg atggcgccca aggcgagaa gaagccagcg gagaagaagc cggcggccga 120
ggagaaggcg gagaagacga ccgcaggtaa gaagcccaag tccgagaagc gcctgcccgc 180
ctcgaagtcc tccggcaagg agggcggcg gaagaagggg aagaagaagg ccaagaagag 240
cgtggagacc tacaaaatct acatcttcaa ggtcctgaag caggtgcacc ccgacatcgg 300
catctcctgc aaggccatgt ccatcatgaa ctcttcatc aacgacatct tcgagaagct 360
cgccggcgag gccgctaagc tcgcccggta caacaagaag cccaccatga cttccgcga 420
gatcc 425

<210> 54994
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D1

<400> 54994

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gactgcaata tcaggagcag ataaaaactc ttgagataaa taattacgca cttagagtgc 120
atgtgaagca ggctcagcag ggcaattcta tgcattggacg tttcccgctt gacgtcttct 180
aatgtctgcc atggctcaac agaataatta tgcattggacg ttcgttaata tttgatgctg 240
tacagttgga ttttgaacta agcagtgatc aataaaaaaa atcgaggtag tacctattaa 300
g 301

<210> 54995
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D11

<400> 54995

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tcaccgacag ccagatccca ctgactgggc caaactcaat cattggcaga gctgttggtg 120

ttcacgctga tcctgatgat cttgggaaagg gtggggcacga gctcagcaag agcactggaa 180

acgccggtgg ccgtgttgc tgtgggatca ttggactcca gggctgaaaa cgatcgccgg 240

acttgggggt gcctgagagg tccgtcttct gccgtcccca gcagacgagc ctgaacattc 300

ggagacatcg tgaaataaga gcgctgctga tctgtgatca tcgtatttgt cattatgcac 360

ctgtagcaac cgatggactg aactgtgctg gattatgctg ttggatcacc tgagtatgtg 420

gtacatgtc 429

<210> 54996

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D2

<400> 54996

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gaaggtggct tacaacggga ccttttcttg ccatttattg acaccttgaa agaaagatgc 120

atcgtgcatg ccattggatc tgcggtggac tatcgtcaac tgggttctgc tgaacaaggt 180

ttctattttg tcggaaaaca ttacagtacg cttctgaaac agaagctcca gtctttaatt 240

ggagatgaga aaccagccc acaaactgtt gaagtaatta tgggaaggaa attacagggt 300

cccctaggag caaatgggtg tgcataattt ccttttgaag acctttgtga taaaccttta 360

ggtgcagcag attactttgg actctttaa aaatttcaca ccctggcact tgatggtatt 420

ccaaaagctg ggtctagt 438

<210> 54997

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<212> DNA

<213> Zea mays

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<400> 54997

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gatctgcgtc tgttcatatg cctgatgccg acttggtgctg tatgtagttg cttgaattca 120
gtcgtgtttt gctaccgtac ccaccccatg catcatctgt caccgcgacg caataatcat 180
agtaataaca agttcagaga ttgattcatt 210

<210> 54998
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-D4

<400> 54998

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taaagagcct gcagatggaa ggcaggtacc tccgtgatgt atggtgacac atcaccccca 180
ttcagccata gctctagcgt gtggaagtaa agctggcttt gcgtgtacga catgcctaata 240
gccaaatgaa gcgtgccatt gtttagaaac tgaaatgttc agtcgatcag tgtaattcctt 300
tgacatctaa ctatttttatc attatatgga atgggaggaa ctgttgtaga tttgtagaac 360
tacaaaaaaaa ttgtgtatcc ctaacaagtt tgtagcaaag ggggtacatt attacagttt 420
gagatgaaga catcatgtat ac 442

<210> 54999
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B7

<400> 54999

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caatgtgggt gctagtgttg agactgcccc cgagaggggt accagctaca acaccatcgc 120
ctacaacggt cgattgaaaa atgctctggc aaaccataag gactttcaca ttgacatatg 180
ccctcatata ctcacgatga acctcaataa ggatcaccat gactaataac gcctgaaatt 240
acacgtactt gtagaggtag aatatatgta tcaagagatt gaaatgggtct ataacctgta 300

aatctatcac taagagcatc aatattagca cttattaaac cttattacta ccgatgttac 360
tacctaattt atatacttct ctaaaaatta tgcttaaaaa aatat 405

<210> 55000
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A12

<400> 55000

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gcttcgacag tcttcataag cttgtatgga tccgcagtgt gactgcaatg gctagtttgt 180
aagaacttaa tatgcctggg cttttgaact cttagattgt gcttgtattg ctcgtgcttg 240
aggaccagaa aattaaactc ttggcgggtgt ggtactgttg tgatttgcaa gaataaaaat 300
aattggttta aactaaatgt ctgattcgct atgtatgcac tttttgatgc g 351

<210> 55001
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A2

<400> 55001

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ggcaaagagt ccggtgaacc agttccggag tatgactacc tgccatactt ctactcccga 180
tcattcgacc tggcgtggca attctacggc gacaacgtgg gcgaaaccat cctgtttggc 240
gacagtgacc ccaccttcag caagcccaag ttcggctcgt actggatcaa ggacggcaag 300
gtcttgggcg ccttcctgga gggcgggtca ccggacgaga ac 342

<210> 55002
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A3

<400> 55002

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cccctcacac cagaggagat cactctagtg cttaaagctc tagggttcac aaaggacact 120
ctgatataca ttgcttccgg tgaaatctat ggcggtgaaa ggcgcctggc cgtgctcaag 180
gctgcgtacc ctaaactagt aaggaaggag aagattttat ctcccgatga actgcgggccg 240
ttccagaacc attcgaccca gatggcagcg ctggattaca tggctctctt agcaagtgc 300
actttcattc ccagctacga cggaaatatg gcaagggttg tcgaaagcca ccgcaggtat 360
atgggtttcc gcaagaccat cgtcttggac agaaagaagc tcgtcgag 408

<210> 55003

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A4

<400> 55003

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tagatgcatt ctctacgttc ctccggacct cagtctggtg ataatctcaa gatccgagaa 120
tttccggcga tttggtagca aacgtgatgt aaagaaacta agagtgtgtt tggtttgagg 180
aatgaagtaa tccatcttct tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa 300
aaatataata taaaaaaata aaataaattt atttaaagaa gaattaaaat gaaaagtttt 360
ggggggg 366

<210> 55004

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A5

<400> 55004

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aaaaaaaaacaa aaaaaaactaa aaaaaaaaaa aaaaaattaa aaa

223

<210> 55007

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B10

<400> 55007

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gttttacgcg tgagaataaa cagcgcagag tgggtgagcgc tatataaaag cactgggctt 120

gcactgttgt tagtggttca tttgctttct tagattcgga tagtacagtt ggtggatcca 180

tgattgatgt ggatacatat accatgttgc catggcagcc tgtttatcac acattcactt 240

caactagaac attgcggcgc cctcacgggc gccctaccaa aaaaaaaaaa aaaaaaaaaa 300

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<210> 55008

<211> 429

<212> DNA

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gtctttcttct tgggtgccta ccgtgtgctt tatatcctta actggattta ccgatacttc 180

actgagcccc attttgtcca ctggataagt tggatggcag gaatagtga aactctgttg 240

tatgctgact tcttctttta ttacataatg agctggaaga acaatgtgaa gctagagctg 300

ccagcttaag gttgctgctc ctgtccccaa gatatagtag ggtaatatat cagataggca 360

ggccccatac acagcatgat cattgctatc gccaaactggg ttatgaaaaa agcatttttag 420

ttgcgtggc 429

<210> 55009
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-B3

 <400> 55009

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 acacatgcac ataaattcct ttacatttca tttatataac tcaacctgca ttatattatc 180
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<210> 55010
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 55010

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 agtacctcgc cgccgaggtt ctggagttgg cagggaacgc ggcgaaagac aacaagaaga 180
 cgcgcatcat cccgcgccac gtgctcctgg cgatccgcaa cgacgaggag ctcggaagc 240
 tgctggcagg cgtcaccatc gcgcacggcg gcgtcctccc caacatccac tccgtgctcc 300
 tgccaagaa ggcgccggag aaggcgcca gcgccggcag caaggagccc aagtccccca 360
 agaaggcgcg caagtcccc aagaaggctt agaaagtang gacttcattt gactgtgtg 420
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<210> 55011
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 <212> DNA
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 <223> Clone ID: LIB3088-042-Q1-K1-A10

<400> 55011

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tccattctct tccggcggga tacgttgagg accacttcgc tcagctgctc gcgacggcgg 180

cttgtaccct gatttgggtg gggaggatgc ctgatatcca gctgggatgc cacactataa 240

ggccccatgg taccaaagtg gcaacattac acatgtatga ctggattata cttttatgtc 300

ttgctgtact tgatggactg ttaaacataa tcgagccctt tcaccgcttt gttggacgcg 360

acatgatgac cgacttgagt tatccctca agggcaacac aatcccattt tgggctgttc 420

cactgattgc gatcgtgcta 440

<210> 55012

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B6

<400> 55012

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ggctgctctg cgctgttggg tcacataggg tctctgtata gacgcttgtc catatcaagt 180

aacctgttta gaccaccata ccaatatcaa atataggctg ctgctgtat catgtccacg 240

gttacctacg cttgcatacg aacatatgct gcttctatac tgtcgtcaac atctgtttag 300

catgacaca 309

<210> 55013

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G4

<400> 55013

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tattttcctt tacacatttt acaacaacga tcatgtaata tcctcctact atctccacat 120

tttccactca acatccttct aaccatccct caacaaataa tcacactacc cataactaacc 180
 acaaatatac ctacacaatc cttattacaa acccttactt ctcaaca 227

<210> 55014
 <211> 181
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G5

<400> 55014

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<210> 55015
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G9

<400> 55015

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 ctgacagata cacgtggccg gaatactacg aactcgatc tgggagggtc attgggaagc 180
 aatcccgatc ttatcagaca tggactattg ctggatttct gacctcaaaa atgttgctgg 240
 agaaccacaca gctggcttct attctgacct gtgatgatga ccttgagctg ctcgaaggct 300
 gtgcttgctg cctgtccaag aagacgacaa agtgctcacg gcgagcggcc tagtcacatg 360
 ctgctgaaa ctgcgaagct tatgttggct tttatactga tgatgcacaa tgtgtactac 420
 caacggaaaa tta 433

<210> 55016
 <211> 440
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 <213> Zea mays

<223> unsure at all n locations
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 cctcggatcc gaggccatca tggaactgga gactaaaagg atattgcttg agattttcaa 180
 ggagcggcag cggaagagtg ccgaggctgg ttccatccca agtttttaca agaaacctga 240
 agaaggatcc attagctcta gagttcaaag gttggccaag tacaggtttc taaagaaaca 300
 atcagagctt ctgctgaatg ctgatgatct tgatgccatg tgggtttgtc tcagagaaaa 360
 ttgtgttatt gatgatgcta ctggtgctga aaaggtaaga ttcctttntg atgtatttta 420
 caccacatca gctagttttg 440

<210> 55017
 <211> 341
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-H3
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 cccaatttnn tagaagtctt acnntcgaat ttctgtaagg gcctaaagaa tnccaatcag 180
 aaatgtgttt atttgggttt taggtcccag aattatttag tgcannatct gatgcccggt 240
 tgaatttnnc tgttttcctt ttttaaccac ccatgtaccc aatangaacc attttcggga 300
 cccagtcatt atnnngttcc tngtatttct ctttttcggt g 341

<210> 55018
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H4
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gaaatggtac cgttcagaaa cagagcattt ctactgaaag ccagggcaat gcacaaggca 120
agcaacagag aaggtgcaag gagtgtgatg tactcgtgga ggacaagcta tacagagagc 180
actgcaagag tgggtggcac aaacacaact acacacgccca caagaatggg ctcccgcttc 240
tcagccaaga ggagtgtatg gtggagatgg aattggccga cttcaagaaa gaccttaaag 300
actacgattt ctgatgaaga tggttaacaa ggggtgcaca gggcatgaaa ttgttgccag 360
tcccttttta ttttaaataag gaagttaaga atgaggcaca tggtcgtttc 410

<210> 55019
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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tgaggaagga gaaagccttg atggtgaact ctctagtaaa atcatacata aatgtggcgg 120
cataccattg gctatcattg ctatagctag tttgttggtt gaaagatcac gtgaggagtg 180
gtcagaagtg tacgacaaga ttggtcttgg gaatgaagac aatacagcaa agataatgtc 240
atacagctac tatgatctgc ctnccttatct caagccatgt ctactgcaac taagcatgta 300
tccagaagac tatctctttg acacaaaagt tgcgatatgg atgtggatag gtgaaggtct 360
agtccatctt gagaaagagg agggtagcct atttgagggt ggagaaagat acttcaagga 420
gctt 424

<210> 55020
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-041-Q1-K1-H9
<400> 55020

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gattccactt ataaacgttt aaatcatata atgttggtta tataaaaaaa aaaaaaaaaa 120

aacaaaaaaaa caaaattata ataaaactaa aaaataaaaa aaaaaaaaaat aaaaaaaata 180
 aaaaaaaaaa aaaaaaaaada ataccaaaaa aaaaaaacat aaaaaaaaaa aacgggagac 240
 cctttaaaag gatccatttt ctctacacct taatatgaaa tcaaacatt tttttaggaa 300
 ccaaattaaa ttatgtgaat gctttaaaac ttgatgccat gtaaaaacct ttgatatacc 360
 aatttaatac ccattatact aattcccctt 390

<210> 55021
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A1

<400> 55021

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 ataccacaaa gataaaccta catgcctgta caaacattaa atgcccttgc ggacagctcc 180
 ggcagcatgg agcccaagtg ccccaagaag ggccccaagt tccccaagaa ggcttacaaa 240
 gtggggactt catttgcact gagtgctgtc acatgctcgt gtctagatat gtggatcata 300
 tgtgttctga tct 313

<210> 55022
 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G12

<400> 55022

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 aaaactaata aaaaaaaaca aaaaaaaata acacaacacc aaaaacaçac aaatataaca 180
 aaattccacc gtatacaaca caca 204

<210> 55023
 <211> 329

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-041-Q1-K1-D8
 <400> 55023
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 aattgtcaac aaggcggctg cgcaagcggc ggcgccaagc gccaccgcaa ggtgctgcgc 120
 gacaacatcc agggcatcac gaagcggcg atccgtaggc tggccaggat gggcggcgtc 180
 aagcgcattt ctgggctcat ctacgaagag acccgggcg tgctcaagat cttcctccag 240
 aacgtcatcc gcgacgccgt cacctacacc caacacgccc gcccgaagaa ccgtaccgcg 300
 atggatgtcg tctacccctt taaacccca 329

<210> 55024
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-041-Q1-K1-E1
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 catcattacg agtccaatg ttgatgtcag tggcctctct ttctcgatct tctccatttt 180
 tactttacct tatctttctt ttttaatgaa ccacttcttg tgctcctgat ttcctttttt 240
 tttcttttgc cattactctt tttattccat tgtagttat ggtctcctaa atttaaatcga 300
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<210> 55025
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-E4
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attaagacat gcccttnacc atcaccanta tctttcctntt tgaatcantt ntaatgcatt 120
catcntcatt cttggctctt cctgatctat ctttcattaa ctatctatat tatatcatta 180
tcaatgttat tcaattattc tttttcaaaa aaaaaaaaaa aaatctgcct ctctatatta 240
tccaacctta cttacgcctt cattccactt cat 273

<210> 55026
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-F9

<400> 55026

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gaaagcagct ggtgaggagc cactaccaga agaagatcca tccaatccta tattttaagcc 180
tattcctgag ccctcacgat tggagggcta tctagtaact aatcagatct gcagttactg 240
caaccatata aacgggggttg ctggtcagaa ttctgacagg ctataactga tgaaggcctt 300
gcatgatgat tagaagactg ggctgcgatg aatgctgtta gaataagctt gtgatactgc 360
tcaaaatcgt aaattttgtg atgtaccttt acatgggcct gcctgttctt ctacttaatg 420

<210> 55027
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-B9

<400> 55027

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<210> 55028
<211> 112
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C3

<400> 55028

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aaatttataaa aaaaaaaaaa aaaaaaaaaag aaaatgtaaa attttataaa ta 112

<210> 55029

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C4

<400> 55029

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tcccttccct tctttccact aacgtcatca tctaaatcct tttatttacc cttacctaca 180
ttatatacct caactacaaa catcacttat actactaacc tt 222

<210> 55030

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C8

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ataaccattt taccacatgc ccttcatctc cccaagtttg acaaaccatt cctaccacat 180
aatccacta aacatttttac aactccgaaa tcgccacata ttccaatata atacctaata 240
gctatacacc atgctttaat catatcacca ccgtactctt ctcaacatct cttctacttt 300
gtttatctat cttatccttt aactactaag attctttttt cccttaccaa tttttaaaac 360
aatccaacta cccatttccc ctt 383

<210> 55031

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D3

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ttatactgat tatgagttac ctgtagtttg gttaaaataa aaaaaaaaaa aaacaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaataaa aattttaaaaa aatttaaaaa aaaaaaaata aaaataaaaa ataataataa 240
tataaaataa aataaaatta tcataaaaat ctttaataat taattatatt aattttttata 300
taattttaaaa atattatattt atattaatta att 333

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<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-041-Q1-K1-D4

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aactttcttg tccaaattta atctttcttc tttcaacaat acaaggagtc atttacaaca 240
agtttttttac ttttttatct cttcattttt ctaccttctc ataacacctt ctattttttaa 300
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<210> 55033

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-G8

<400> 55033

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attcgggtgct caaggcgctg aacttgggct cccctaagag cggcgacgcc ccgcgggggt 180

tccgggagaa acccaggcac tccgagaagc cgaccaagta cgccggcagc cccaagagca 240
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 aggtgactca catggaaggc tgctgcctct ctagcagcat ctgctactgg ctgcagctgc 360
 cgtcggcgt 369

<210> 55034
 <211> 147
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-G9

<400> 55034

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 ccctacact ttccaacccc cctatccccc catacttttc cttttctacc ctttcttta 120
 tcccaccatt cttctgtttt tcccctt 147

<210> 55035
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-H12

<400> 55035

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 cctcagtgc gtgatctgcc gggcctgcaa ccagattggc catgcgagtc gtgactgcat 180
 ggctggtgct ttcattgatct gccacaactg tggcggccgt ggccacacgg catatgagtg 240
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 ctatccagat gactgttggt ttcagcccat tgtgtcaaga acactcattt ccgttttctt 360
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 ttgtgattcc ctaatggatt ct 442

<210> 55036
 <211> 362

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-A11

 <400> 55036

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 tgagcccccc aaaccagcag tggcaccagc tgcaagtgtt ccacctgttg agaaaccatc 180
 tgctgcaaag actgatgcgg ccaagcaggt tgctgctggg gttaccagcc aaaccaataa 240
 ctaccacagg gctgatgggtc agaacactgg caacttcctt acggaccgtc cttcaaccaa 300
 ggtccacgct gtccttggcg gtggctcttc cctgggctac ctgttcggtg gcaactgatg 360
 cc 362

<210> 55037
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-A3

 <400> 55037

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 gggacggagc tatatcaagt caccacaaca cacaagttca cacttaaaaa aattcctata 120
 ttaaaatgat atcaccgcga caacaagatc tagaccata tctttatata ccacaacaag 180
 cgttatgtca catatattga a 201

<210> 55038
 <211> 110
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-A5

 <400> 55038

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 aaaccctgga aacatgagcc atgcaaagat aaaaatgagt ttgttttaac 110

<210> 55039
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-A9

 <400> 55039

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 caccactact atctacctct cctccaacta taacctccac caactcctca ataaattagt 180
 gtaccttaac aagcatcgag atttactata actggacctg attctctaga cctagctcga 240
 acatcacttt cacaccattc actatgccaa catccacacc ctccatcaag tgctcaacct 300
 ctaaaaccca tatttctgta aataattgac tatccaagat catccaccat aagatctgaa 360
 ctctaactct ctgttctctt ccatcaaatac aaatat 396

<210> 55040
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-G12

 <400> 55040

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 tctacaaaat caatactata atactaaaat aatactata ctctatcatc attcattaat 180
 cactcataca ttctcttttc atcttatccc acttcaaatac aatctaataa accaactact 240
 atccaaccca atacactcat atttaaacta attccattac accaataatac acaattcta 299

<210> 55041
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-B10

 <400> 55041

 gcagatcccc acctgatccg ccttttgctt tctcattact ccctctgca gacagtatga 60

gataatttcc aaatgctccg gggcacacac aattcaagca gcaacattac ttccagaact 120
 tgaccaagca cacctacctg aaagggcgct tcgacatgat caccttcgtc accatcccc 180
 ttgcactagc tgactacatc atgctcatga ttggacgtgg agtttacaac atgtatcatg 240
 gcgttgggaa gaaagagcga tcttccactg gttaactatt gcttctgctt ggcattgaat 300
 tcataccgtc aatactgcta aatcctcttc cctagcaaaa taatactggc aaataacaat 360
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<210> 55042
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-A11

<400> 55042

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 taaaattaaa aaaaaaaaaa gtacaaaaaa aaaaaaaaaa aaaaaaacia aaaaaaaaaa 120
 aaaaaaacia acacaataaa ataaaatgat taactaaaca catacttaca aagaacaaaa 180
 tcaaaatata atactataac tcgaaataaa caaatcacia catatattaa aacttcataa 240
 cttgtaaaaa attaaaaatc caaaaaaaaa aactactaca ataaaaatca tgttaaaaaa 300
 acttacaaaa aataa 315

<210> 55043
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-B1

<400> 55043

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 ggtatcgtag atatttacia ggatctgatg cacaatcacc agagcgaact agcagaataa 120
 ttggctgaaa ggaagcacct cttctgcaca cgcccacaaa cactgagata gaccatccgg 180
 gcaatggacc tggagacgct gagtccttac gagccatggg atgccaagcc agtcgtcgcc 240
 ctgatcaaca gggttcttgg cttcccaatt gtctgacaaa taaacgacga g 291

<210> 55044
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-B5

<400> 55044

gtgaacaagt gtttagctta actgattgat gattacagca tggtaagtt catttgacat 60
gatttgagac ccgaaagcat catacaatat gtgctatctt ctatctacac atgtatccag 120
tatggatgaat attcatactt taagggtcagg tacttctaata aatactaata ctaaccactg 180
gatgctattg taagtgcata ctgggtgcca acattcatat atggcggagt gagacttttt 240
tactgtatgg cgcaagcatt caaaaacctc ct 272

<210> 55045
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-C1

<400> 55045

cacgcatccg gggaggtata gagacatctt acctgacgct agagtacggc atgaccgatc 60
gcatcaacga caagtttcaa atggagaagg tacatacaga ggtgaggacg acgatgcgct 120
cgccggacgg caagaagctt gacatactat ctgatgatga cctctgcagc atgcctacc 180
tcaaggcgac catcaaggag acgctacacc tgcacccgtc agcaccgttc ctactccgc 240
actactccac cgctgactcc gagatcgact gctacttctg ccc 283

<210> 55046
<211> 117
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-C10

<400> 55046

atcttttaag gttaaccttt ataataacaa acatagtatt tttggttata attaataaaa 60
catttattta aaaacaatct atataaatca attttactaa tcacatacaa tcaatat 117

<210> 55047
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-C11

<400> 55047

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 gctcagtcctt tccagagcat ctgccatctg aataattctc aatagaatgg aatgggttg 120
 ccttaatggt ccttgccatg gttaattttc ctttatacat cttgccataa tgtccacatt 180
 ctaagggacc actgtcacct ggaaaccttt tccaatactt tttccccatt caatgtacat 240
 atttccatcc cttgggtgtt tagctgttct catcaaactt aaactgaatc ttggtacatt 300
 ggtgtatcct taatttaaac actgcaattt taaaaagatt tttccccctt taaatttttt 360
 gct 363

<210> 55048
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-C12

<400> 55048

tattttatct ttaatttttt ttttattatt cttttaactg aaacaagtta ttttaaaaat 60
 tccacagccc catcaaaaac atttaaccca aaacaaatat caatcaatat taatttataa 120
 aaataaccaa attattttaa tccaacccat catattcatc aataccctta taaaaaaca 180
 tcttaaactc aacaatccta tttctaaacc ctttccctta ctctttacca accataaacc 240
 taa 243

<210> 55049
 <211> 110
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-040-Q1-K1-C3

<400> 55049
ctctanggac cgatagaaca ttgagccatc ccatccacca aaggtattct gccaatTTTT 60
aaagcataga acccctacca tattcttttaa tttgtacgct caaatatact 110

<210> 55050
<211> 126
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-040-Q1-K1-C6

<400> 55050
taaaacgaac caatacatgg agattgtcta ttatacacta tgtacatctt taagtcttat 60
gttaacattt acatagccct atcatacaac cnnCGGGGga ggggtaaccg gcatgcctat 120
tctaaa 126

<210> 55051
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-D10

<400> 55051
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cagatcagaa cccatttcta caataattac ctaccaattg ccttttagaa accatttaaa 120
aacaatcctc accctctaac acataaattc actaaaaaac ataaatcttt aactcaataa 180
atcctataaa aaattccctc cccttaca 208

<210> 55052
<211> 253
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-040-Q1-K1-D2

<400> 55052
cactgcttcg gtgcccttct ggctgnctgg gggnnatgga cctactataa atactccaac 60

atctgcaactg cgctgggtccg gaactgcctc aaggagccct tcaagtctga tgccgaatac 120
 ctcgagaagg ttcattttctc cattttccaag tgtacggatg gcaagcatga gaagccaact 180
 gtccgcacag aaatcgatga ctaagggctg gcgcaccatg gcgacatagt ccttcctaca 240
 gatgatttga agc 253

<210> 55053
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-D9

<400> 55053

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 atatgttatac tgaccttcaa caactttgtc aacaactctt tcaatctatt cccaacctta 120
 tacttaacaa caaatctaag accaaactga ctatccatct ttactcaatc cacataaatc 180
 tccccgctat ccttcacgac ccttacaacc taacctctta tatcgctaag agacacacct 240
 ctactaatat ca 252

<210> 55054
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-E12

<400> 55054

gaggggaagag atggcggcgt cggacgttgt ttacctttgc ttcggtggcg gcctcgcttg 60
 ggccagcgac taccactccc tcaacaacgc cttcagcacc tacggcgagg tctcagagtc 120
 gaagatcatc ctggatcggg agacgcagag gtcccgcggc ttcggtctcg tcaccttctc 180
 cacggaggac gcgatgcgca gcgccatcga gggcatgaac ggcaaggagc tcgacggccg 240
 caacatcacc gttaacgagg ccagtcctcg cggcagccgt ggaggctgcg gttgcggata 300
 cgggtggcggg cgccgtgatg gaggtctgta cggcgggtgc ggtggaggct acggcgggtg 360
 tcgtgg 366

<210> 55055

[illegible]

<400> 55055

<210>	55056
<211>	348
<212>	DNA
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<400> 55056

<210>	55057
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<212>	DNA
<213>	Zea mays

<400> 55057

<210> 55058

<211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-F9

 <400> 55058

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 gagagcgaga gagagatcta gtagagaggg tagtatgtgg tcgtcgaacg agacatgttg 120
 gcggtgttca gcgggcaggt ggtggaggtg ccggcggagc tgggtggcggc tgtcagccgg 180
 acgccgtcgc ccaagacgaa tgcgtcgcgt ctggtggggc gcttcctggc cgcgtccgaa 240
 ccggtcgtgt tcgtgcagct tggcgaccac cggcacctcg tctactccca caccaaccat 300
 gcgctccttc gtcccatgtc gttcgcggtc aaggacgatg tgttctgcct tgtcgagggg 360
 gtgctggaca accttggtcg tttgatccag 390

<210> 55059
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-F10

 <400> 55059

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 agagaaaaac tcacaagaat gacttttctt gaccggtggc aggtcaacaa cttnttcac 120
 aaccaaataga agagcctttc taatccatct catctcattc catttgaca taatggagct 180
 tgttctccta tgatagaccg tttctttgtg tgtttagggc aatacctcgc atttgctttg 240
 agaattataa tcgtgggttaa acctgacaat gac 273

<210> 55060
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-F2

 <400> 55060

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tctcttttgc tctgatcttg ggagtgccag tcggtgtgcg ttgtggccaa ggagaaggaa 120
 aaaacttctt ggacagcatt tgctgcgcc ggtctgatgg gcttgggttg cttcgggtgc 180
 ttcgcgccgg aggtggttga ggaccttaag cccttctagc ccgactactc gttatgtgcc 240
 gtttcgagga ggatggttct gccggatggt gccatctgct actcgcacat tttcaccttt 300
 ttggacctgc ttgtctctta ccgtcttctt ttctctctct atttggttgg ataattgtgt 360
 ttcgtttagt ttttcattgt cattttcatg ttttttat 398

<210> 55061
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-F3

<400> 55061
 acccactcat actctatatt cttttcccca aaaacgcttt cttttttaat catctttacc 60
 taata 65

<210> 55062
 <211> 79
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-F9

<400> 55062
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 cttttttttc ttcttcacc 79

<210> 55063
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-G10

<400> 55063
 aattctgtct tttgactcaa ggggcggatc tattaaaccg gaaaccggga ctaattctcat 60
 tgtgacattt tttaggggat ttcattcacat ttaattctat ttatataaact caaatgtcat 120

t

481

<210> 55066
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-G6

<400> 55066

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aaaaaaaaaa aagaaagttt aaattaaaag gctggcgggc taaaattccc nccctttctt 120
cctcactacta ccaacattct tatctctttc atttaactcc aaattttttt tctaccaccc 180
catattttac aacttcttcc cttttataac tcatttctcc ccaaataaac cttcttttta 240
cctaaccata cttttctaac attttctata atatttttat atccctctcc ttatatctct 300
tctaaactat ttcctatata ttttattata tttttccccc ccctttttct acttattata 360
tccccttttt ttattctttt aactcctctt tttttccat ttacttctct tttttaattt 420
ctaataatttt atcttttttt t 441

<210> 55067
<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-H10

<400> 55067

aatctctcca catgataaca actatgttgt tttcatgat aggcttgta caatcacagg 60
gacgtttgat aaccaaata gaagcagatana tttgatactg aaaaagtat ctgaggatgt 120
tcaactatcca cctaatttga gctcccatc tcttatgca ggccttactt ttccaagcta 180
ccctggtggt cctgttggtt atatgattcc acatgtgcca tatatttatg ctgtgaacta 240
tggaacctaat aatggtttcc gattgtaggt tttta 274

<210> 55068
<211> 318

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-H6

 <400> 55068

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 atggtgtacg ttttaagaggg gacattcatg tcttgcttct cggtgatccc tccacagcaa 120
 aatcacagtt cctaaaattt gtagagaaga ctgcacctat tgcagtatat acatctggca 180
 aaagatcgtc tgcagctggg cttacagcat ctgtaactcg tgatagtagc tcgcgtgagt 240
 tttatttggg aggaggagcc atggttttgg ctgatggtgg agtagtttgt atcgatgaat 300
 ttgacaagat gagacctg 318

<210> 55069
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-H7

 <400> 55069

 ctgacgcgtt cgtttttttta ttcatacaca ttgtttatca ccaagatatc cacattatga 60
 tgtgctaacc atcaagaaag atcgcaagga tccctgttaa taaatcatta ccgccagcac 120
 caatacacca agtaatacac ggcgcatcac atcaactaca aaccttttta ttaccacgct 180
 tctcattcat gtaaaaaatg aaacggatga catactttta tcaccactag ctctgctttt 240
 ttgagcgaaa tcgagtatgt gagaagcaca ctgcgtgtat acttatcatc atgatgcata 300
 tcttatggca atgaactatg ttattcactt tttcttttat tttaaatact acatctgctt 360
 atttaataata ttt 373

<210> 55070
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-C4

 <400> 55070

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cgctgaacct gatggatggg cagtgacaac ctgccgttgg gtacgtcgtt cccttcactc 120
 ttggcacctt gatcgcgctt ggatggaata gaggggagct gcttaacctg ttggctaggt 180
 gtgagccatt attagtttgc actcatattc atatgctcct tcttcctact actttattct 240
 aacctcagtg ttagtataaa ttttaataatg gttttctatc ttttatttat tattttattt 300
 tccttattgt ttatatTTTT tcttatattg gggttgtgtt attttttttt ctctcttttt 360
 atttattact ttttctatta atttctttta tactttctta ctttatcttt ttattttact 420
 ttattttatc ttcattattc tatttttcat tttctttttt ttcttatttt ttttttt 477

<210> 55071
 <211> 164
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-C7
 <400> 55071

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 tttttatttt tttccttata acaacgcgag agtgtattct taacactttg aagagcaatc 120
 tttttatctc tatcatttct actacatata catttacctc atat 164

<210> 55072
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-039-Q1-K1-D10
 <400> 55072

acgcgtccgc actcactact tataagcata tctcagtcct ttatccacac aaaggtcctt 60
 acaattcatg caagggtcct acttaacggc gtgggtggct gcaccacatc acagattgca 120
 ctgcagataa acttcttaac cataatactg ctaggtacca tcgtatatca caagcaaadc 180
 tactcctgat aggtacaaga gcttatctac cattcctata gttcatgctt tttatccttt 240
 actataacac tgtactcata tataaactcc tttatccata 280

<210> 55073

<211> 139
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-D3

 <400> 55073

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 tccatcggtg cgttttactc attcgttgag acatgtttct attttcctt ttaataaatt 120
 cttattcata tatatacat 139

<210> 55074
 <211> 133
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-D8

 <400> 55074

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 cnccaataca tctnnaaaac gacgatttat tttataaacc ttaccaccct aaacaactct 120
 ccaccatttt atc 133

<210> 55075
 <211> 126
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-E10

 <400> 55075

 tttgtgatgt cgcattttgt gcactcggct ttgtataata ttgngcttgc ctgctatagg 60
 gaccgctatc ctgtattatg ggatgggata tataactacta ctactactgg tttattttcc 120
 tttaat 126

<210> 55076
 <211> 209
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-E4

<400> 55076

ccggcccgac ccactcatcc tcccactctt cctaaaaaaa aaaaatttac tataaaaaaa 60
aacaaaaaaa aaaaaaagga aagatatctt aaaaaagtag gaaagccccc cccaacacnc 120
ccaattcccc ctaatcttat tactcccacc tctttcttcc cccttctctc tactttaatc 180
ctcttcttca cttcctccaa atctaattc 209

<210> 55077
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-B12

<400> 55077

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ggctggacty tgcattccaa gttggaagtg cctggctggt ctcattctaa tgctggacc 120
tttcttgtcc tgtaatcgta ggcacgtctt aatgtttttt ttaacatata ttttatctct 180
gttctaacty taatagtatt tctatccatc tacatttata gtctctctta ttctcttttc 240
tatattttat cttttttctt tcttatattt tttatatatt tttttttttt atgtttgggt 300
gttatttata tttttttatt actttttttt atttattctt attattttac ttttttattc 360
tttacttttt cttattcttt atttcttttt ttttttttac tttctttctt aatttactta 420
tttttta 427

<210> 55078
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-E7

<400> 55078

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cacggtcaca ttctcattat gggcaggttc atttatacac ttggaggagc tttttctatt 120

ttcttcatct atactttttt ttatatctct acaaatttta c

161

<210> 55079

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-G9

<400> 55079

cccacgcgtc cggtgctgca caggcaatga ggaggcctgg aacagcccga actggcggag 60

gacccggtgc acaacgtgct cctccacgaa gatgtcgaag acgagcgggtt tcctagtcgg 120

ccaatagtcc ctgtcttaaa agcataggga caaaaggccg taaggagcac gttgttgacac 180

gacgttgctg gcgtacaggg tctagtggac ctggatcatcc ttcaggctcg cgagctcagc 240

gacgaagctc aggtgttacc ttcctcttgg tctccttggc catgagacac ttatggccga 300

agttggggaa aagaagtccc ttgttgacga cgatgttggc ggcgtcctcg tcggaggaat 360

cggtggagct ctgctcggag tcccactctc acaacatgt 399

<210> 55080

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H1

<400> 55080

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gcgcaacctta acagccgccc acacggcgcg acatccactg gcgcaagcgc aatccgcaag 120

ggccaacgga tcgccggccg gcgcgcgcgc agcctcctgg ctccggccgcc ccgcggctaa 180

cccaggggcg gaaaggccgg tcagccgccc acaccccatc cggccagcca ggcggaacg 240

accgtaagag ggaagccgca tccggccgct gactccgatc ccacctctag tcaaccccat 300

gcagaccgat cctcctcgtc tgaccacgac ggccatctcg cacgcggcac gcctacttcc 360

actcaaccac acaagtcttt tc 382

<210> 55081

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-H10

<400> 55081

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ccaatggcgc cgacctcgag ggtgtctgcg ggcattaaac gcgcttcacg ctncacgcg 120

taccatcgcc gtgggctgtg ggccatcaag gccagaacg gcggcgctt cccaaggcc 180

gacaaggccg ccgccgcgt ggaaccaag ttctacctg ccgacgacgt caagccccgc 240

gttcccagca cccgcaagcc taagcctacc aagcttatgt cgagcatcac gcctgggacg 300

gtgctgatcc ttctctcagg gcgcttcagt ggg 333

<210> 55082

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H11

<400> 55082

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atgtgagttc attgccacca aagcccttga atagtgtgc agccgccgcg cagtctaagc 120

ctagtgttac tccaaaggag cagtttggtta ctgctcggcg gcaagatttg cctgtaagtt 180

caaagcaggg agcagacact aagtccgaga aggataattt cacagtatta gataaggctg 240

gcaatggtcc tgttgtcaaa gaacaatcag ttgatgccca tgcaagcaaa agtaagctca 300

aaatggaaag gccttgcccta gtaatggggg atcgctggct tacatgtggg 350

<210> 55083

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H3

<400> 55083

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tgagcgggag agggtaggtg gcgagggcgc ggagatgggg cgggggcccg tgcagctgcg 120

ccggatcgag aacaagatca accgccaggt gaccttctcc aagcgccgga acgggctgct 180
gaagaaggcc caccagatct ccgtgctctg cgacgcagag gtcgcgctca tcgtcttctc 240
cactaagggg aagctctacg agtactctag ccattccagc atggaaggca ttcttgagcg 300
ttaccagcgt tactcatttg aagaaagggc agtacttaac ccaagtattg aagaccaggc 360
aaattgggga gatgaatatg tccggttaaa atccaaactt gatgcact 408

<210> 55084

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H4

<400> 55084

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catcccgacc aagaagtcgc aggtgttcac cacctaccag gaccagcaga ccaactgtctc 180
catccaggtc tttgaggggtg agcgcagtat gaccaaggac tgccgtcttc tcggcaagtt 240
cgacctcaac ggcattgcgc cagctccaag gggcacaccc cagatcgagg tgaccttcga 300
agtggacgcc aacggtatcc tgaacgtgaa agcggaggac aagggcacgg gcaagtcgga 360
gaagatcacg atca 374

<210> 55085

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-H6

<400> 55085

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agaccatact actgcatgca gatgagcagg ttgccggtga agtcgtttga ccgcaaacca 120
ttcttgaact caaagatggg acgggagctg tgcgtagccg atgtgaccgt tggaggttcg 180
atcaagctgg tgctggctac aagccacctg gagagcccat gccct 225

<210> 55086
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-038-Q1-K1-H7

 <400> 55086

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 tctataccac ctctgttata accctactga cacattgccg tcaagagcac gttgctgcac 180
 aacaatatcg atatgcaggc tctcatagac cttgtcatac atcacgtatt cctgctcaat 240
 gacgaagctc 250

<210> 55087
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-H8

 <400> 55087

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 accgccaat actacctctc ttataaccat actcacacaa tgccttcaag atcactttgc 180
 tccacaacat tatctacata cagtctctaa aagaccttgt catccttcac atattcctcc 240
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<210> 55088
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-A1

 <400> 55088

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atatattatc ttgttcaact tgcactatat ttcatttgag tacttacctt ttattgatct 180
 ctctttaatc taaactagtg ttcaagttaa aatatttata ttatataatt aattaaattt 240
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 tcttaatttt attttgttta tttttctttc ttaatctttt atccaatttt tttatttatt 360
 tttttatttt atttaaatat tttttattct tttatcttaa ttctaaattt acaattttta 420
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<210> 55089

<211> 162

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-039-Q1-K1-A3

<400> 55089

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 aggaaggagg tgtcttcttt ctgacgttga gtaccnctgc ttcttttctg gcctctctg 120
 tgccaccgac taccactccc ttacaactc cttcagcacc ta 162

<210> 55090

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-A6

<400> 55090

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<210> 55091

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-A7

<400> 55091

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ttccgcgtct acctactt

438

<210> 55094
<211> 188
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-E6

<400> 55094

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tcaaacaaaa ctatcaccaa atctccccac tcaatcattc atatccacat taccatccta 120

tcctactaac tgatttttatc ctaactcadc ctctcttttc atcaaaacat tcataacccc 180

tcttccct 188

<210> 55095
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-E7

<400> 55095

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gccaatTTTT tcttgacctt accctcttcc ncttccctt cttcttcttt cttctgcttc 120

ctttctttct ctgtctctct ctgaccttac tcacgacaac ttcttttata acatgaaagt 180

aactgttctt atccttttca tccactactt tactcttact ctttatcctt tttccaacat 240

cccttctttt tttctcttct cctacacatt ttcattcttt cattctcacc ttattttcct 300

ttatcttttt tttcttttatt ttatttttat cttttatttt tatattttat tattctacta 360

cttttttttt tttattctaa tttttctttt cttttttttt actattttaat ttcttttatat 420

tttttattaa attatttttc tatt 444

<210> 55096
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-F10

<400> 55096

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cntagtcagt ttatgatccc actgccacnn ancttaaaac agcggggggcg gaagtgattc 120
ccggcggcgt gcgagtgaaa ggggtgggtca tccagtccca caaaggccct atcctcaacg 180
ccgcctctct gcaacgcttt gaagatgaac ttcaaacaac acatttacct gaaatgggtt 240
ttggagagag tttcttgtca cttcaacata cacaaactgg catcaaattt cattttaatg 300
cgcttgatgc actcaaggca tggaataaaa aagcactgcc acctgttgag gttcctgctg 360
caacaaa 367

<210> 55097
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F11

<400> 55097

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accccgactc tctgcaacgc tttgaaaatg aacttcaaac aacacattta cctgaaaaag 120
tttttggaga aaagttctta tcacttcaac atacacaaac tggcatcaaa tttcatttta 180
aaacacttga tgcactcaaa gca 203

<210> 55098
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F12

<400> 55098

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cctgagcaga ttggcaacgg ctatgccccca gtgctggact gacacacctc gcacattgct 180

gtcaagtttg cggagctcat taccaagatt gataggcggc ctggcaaaga gcttgagaag 240
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atggttagagg agaccttttc tgaatatacct cctcttggtc gctttgctgt ccgtgacatg 360
aggcaaacgg tggctgtcag agtcatcaaa agtgtggaga agaaggatcc aact 414

<210> 55099
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F2

<400> 55099

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tcctctccgg atcatctctgc catggaaact gaattcacag aattaacaga acagcagtat 180
gaatacaaat cgacagacgg agcaagcaaa agaggcggac gaaagaaagc gtcacatcatcc 240
ttggcaacga tactatctga tgttgatgag gaagttctac atgtccaaac tcacaataaa 300
ggtactggaa ggtagcccg 320

<210> 55100
<211> 186
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-F4

<400> 55100

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tccaccaaaaa caattgggca tgtagacgaa tatgttgtca taccagccat taaaaaccct 120
ctcacaactt ctaatatcaa ccactactct tcgaatcatt caacagcaca aactgcattc 180
acagaa 186

<210> 55101
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F5

<400> 55101

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ttctgagacc aacaatattg gcaagtgttc cccggttata taacaaaatt tatgctgcaa 120
ttacgaatgc tgtgaagcag tctggggggg tgagagaaag gctgtatcat actgcataca 180
atgccaaagcg acatgccatg ataaatggta gaaacccatc acctatgtgg gacaagttgg 240
tatttaacaa aattaaagct agacttgggtg gacgaatgag gcttatgact tcaggtgctt 300
ctccattgtc accagatgtc atggaatfff taagaatatg cttcggtgaa gttcttgaag 360
ggatatggaat gacagagaca tcttgtgtca tcagtacgat gaatattggt gacagatcaa 420
ttggacatgt tggatctcca aatccttc 448

<210> 55102

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F6

<400> 55102

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caaacccatc acctatgtat tacaaacttt tatttaacaa aatcaaattc atactttata 120
tcaaaatatt cttattactt caattttcttt tccattttca ccaaatttcc atataatttt 180
aaataatatt cttctttcaa tttcttcaaa ctattaaatt acataaacia tttatttcat 240
caatac 246

<210> 55103

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F7

<400> 55103

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gccgcccctc cggtcgtagc cgttcgaagg tgcggcaccc ggcaaaccac ccatttcatt 120

ctacatgaat cccgagtacg actacctttt caaacttctg cttattggtg attctggtgt 180
 cgggaaatca tgcttgcttc tcagatttgc atacgattct tatttggaca gctatatcag 240
 cacaattggg gttgatttca aaattcgcac aatggagcaa gatgggaaga ccataaaaact 300
 tcaaatttgg gatactgctg ggcaagagcg cttcatgaca atcactatca gctactaccg 360
 cggagctcat ggaatcattg taagttggcc acctgaacta gcaacttctg aaattttgca 420
 accatattga acatattaca ttaattgct 449

<210> 55104

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F8

<400> 55104

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 tatgccccag tgctggactg ccacacctcg cacattgctg tcaagtttgc ggagctcatt 180
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 ggtgatgctg gtatggtgaa gatggttccc actaagccca tggtagtgga gaccttttct 300
 gaatatcctc ctcttggtcg ctttgcgtgc cgtgacatga ggcaaacggt ggctgtcgga 360
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<210> 55105

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-F9

<400> 55105

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 gacgctgtgc acaccttcca tgtcacacat aataaaccac cacgagcaga ttgctaaccg 120
 ctctacacca cctctgttct aacactcctg acacattgcc gtcaagagca cgtagctgat 180
 caacaatatc gataggcagt ctctcataga cttgtcatg catcacatat tctgtctcaa 240

cgacgaagct catgtggtga atatcttttc cactaatccc acatgagaca ataactttcc 300
tgaatatgct acagaaagtc gcttttctct acgatacatg 340

<210> 55106
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-G1

<400> 55106

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gatctacaca ttttacaagg cacaaggata ttctgttga aaatctctcg tggaagagga 120
taaacttgag ctcgcaactt ctcttattga gaaggcgaag gcaaaggggg tttctctttt 180
gcttcccact gatattgtag tagcggacaa gtttgcagct gatgctgaga gcaagattgt 240
ccctgccact gctatccctg atgactggat gggctctgat gttggccctg atgccaccaa 300
aacattcaac gaagcattgg acaccaccaa gactgttatt tggaacggcc ccatgggagt 360
gtttg 365

<210> 55107
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-G12

<400> 55107

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ggccatcaag gccaaagaacg gcggcgccct cccaaggcc gacaaggccg ccgccgccgt 180
ggaacccaag ttctaccctg ccgacgacgt caagccccgc gttcccagca cccgcaagcc 240
taagcctacc aagctcaggt cgagcatcac gcctgggacg gtgctgatcc tcctcgagg 300
gcgcttcag gggaaaagag tgggtgttct caagcagctc aagtccggcc tgctccttat 360
ctctgggcct ttcaagatca atggagtacc gat 393

<210> 55108
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-G2

<400> 55108

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atctctcgtg gaagaggata aacttgagct cgcaacttct cttattgaga aggcgaaggc 180
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tgctgagagc aagattgtcc ctgccactgc tatccctgat gactggatgg gtcttgatgt 300
tggccctgat gccacaaaa cattcaacga aacattggac accaccaata ctgttatttg 360
gaacggcccc atgggagtggt ttgaattcga gaaatttgca gctggcactg atgcgattgc 420
c 421

<210> 55109
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-G4

<400> 55109

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tcgaaccaga ggagccaagc agaggaagcg aggcggcggg ggcggagatg tcggcgggac 180
tggtgaccga cgaggccacc gtggggcggc tgtaccgat ccggcgcacg gtgatgcaga 240
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tcctccgcaa gtccggcgag tccttcacc gcgaggacct cctcatcaac aagtacaaga 360
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agcacatcaa gaagtacgt 439

<210> 55110
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-E4

<400> 55110

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cccagcttat ggattccgct aacaagctgg aaagtaacat gaaaaccaac ttggaaaggg 240
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acagagat 428
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<210> 55111
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-A5

<400> 55111

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tcgtcgccga catgtcctcc aacttctgct ccaagcccgt cgacgtctcc cgcttcggcg 180
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gcaaggcctg ggccctctac gacaccatct acgccagc 458
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<211> 339
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-A9

 <400> 55112

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 tgctccaagc ccgtcgacgt ctcccgttcc ggcgtcatct acgccggcgc acagaagaac 180
 gtcggggcct ccggcgctcac catcgccatc gtgcgcaagg acctcatcgg cgccgctcag 240
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<210> 55113
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-038-Q1-K1-B4

 <400> 55113

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 gtgtgggttac cctcgaagaa gggaggagtt ctgaaaactt tctctatgtt gtggagggga 180
 tgcaatttga tcgtgggttat atctctccgt actttgtaac agacagtgag aaaatgtctg 240
 ccgagtatga gaactgcaag ctacttttgg ttgacaaaaa gatcaccaac gcaagggatc 300
 ttatcaatgt tttggaagaa gccatcagaa gtggataccc aatcctgata attgctgaag 360
 atattg 366

<210> 55114
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-B7

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cataatgtct cggacaaaca acaacttatt atactcttcg gaagccaacc acgatcatct 180
aaacccgccc tatctctcat gctatttaca aatagcatat gcaatgggtct gctccc 236

<210> 55115
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-B8

<400> 55115
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atggccctgc tcaaagccgc gcgcgtcgcc gatgtgccca ccctggacgt ggtggtggcc 180
ccggccttgg tggcggttgc caaggcgagg agcgccgcgg cgggtgggcg cgggttctcg 240
gtgatcgggc accgcggcaa ggggatgaac gcgctggcgt cggaggacct gcgtctgcgg 300
gaggtccgcg agaacacggt ccgctccttc aacgacgccg gacgattccc cgtcgactac 360
gtcgagtctg a 371

<210> 55116
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-C1

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atgatgctgg ggggaagctg tacacgatca tggaaatatg ccgtatgttt gatggtattt 180
acaaagagca tctggatgga gtgcgccctg gcggagagaa agtttaccat gtcttcgaca 240
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<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-D10

<400> 55119

agcttaagaa tgagatccaa gggaagatat ccatttcaga aaataaggag tcaaagataa 60

aagattattc ttgggtcata aatgggttaa acaagctatt cagatcaagg cgtgttctat 120

cctattcgta tccgtttgca ttctacatgt ttgggtgatga gattttcaag gatgagatga 180

ctcctcanga gagagaactg aagcagaatt tgtttgagga tcagcaacaa caattagaat 240

ttaatgttga aagattgtct ggtttccttg agaaaaattt tcaacttttt accgat 296

<210> 55120

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-D11

<400> 55120

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gaggaatggg tatcgacctc gtcgccggtg ggaggaataa gaagaccaag cgactgcgc 120

ccaagtctga cgatgtctac ctcaagctcc tcgtcaagct ctaccgtttc ttggtcagga 180

ggaccaagag caatctcaac gctgtcattc tcaacaggct tttcatgagt aaaaccaacc 240

gaccaccaat ctccatgcgc cgccttgctca agtttatgga aggaaaggag aagaacattg 300

ctgtcattgt tggcacagtc acagatgaca aaatgatcca cgacgttcca gcaatgaaag 360

ttactgccct gaagttcact gacacagcaa gggccaggat tgtcaatgct ggtg 414

<210> 55121

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-038-Q1-K1-D3

<400> 55121

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tttatacatt aacttccctt tcaaacattt ggctctatgg caaagacgga gaaaattgct 120
 ttcattcttg agcagggtcg gctatgcctg gatcggcaag attttgtcag agcacaaatt 180
 ttatccagga aaatcagtag tagagtattt cacgcagatc catcaaaggg aaaaaagaaa 240
 ccaaagatg gtgacagtat ttgtcatgat gtcctgcaa atattccttc ccttctagaa 300
 ttgaagcgcg tctactacga actgattatt cgttattact ctcaacaaca tgattacttg 360
 taaat 365

<210> 55122
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-D4

<400> 55122
 aaaatcagta ctagagtatt tcacgcagat ccatcaaagg gaaaaagat accaaaggaa 60
 agtgacagta ttgttcaaga tgctcctgca aatattcctt cccttctaga attgaagcgc 120
 gtttactacg aactgatgat tcgttattac tctcacaaca atgattactt ggaa 174

<210> 55123
 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-038-Q1-K1-E1

<400> 55123
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 ggtggagact gagatggggg gttttgtcaa gaccacaag atcaatgcgt acttgaagcg 120
 tttccaggtg aagttcaaga gaaggcgcg tggaagaca gactacaggg ccaggataag 180
 tcttattaac caagacaaaa acaattacaa tacacccaaa tacatatttg ttgtgcgatt 240
 taccaacaag gacatcacag cacaaatcat ctctgctagt atagcangtg atatggttct 300
 tgcttctgct tactcccatg agttgccaca atatggtctt gaagttgggc tgaccaacta 360
 tgcatt 366

<210> 55124
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-E12

<400> 55124

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cggcgccggc gtgggagggg cgcacggccg cggagctgaa gacagcgggg gcggaggtga 120
ttcccgccgg cgtgcgagtg aaggggtggg tcatccagtc ccacaaaggc cctatcctca 180
acgccgcctc tctgcaacgc tttgaagatg aacttcaaac aacacattta cctgagatgg 240
tttttggaga gagtttcttg tcaacttcaac atacacaaac tggcatcaaa tttcatttta 300
atgcgcttga tgcactcaag gcatggaaga aagaggcact gccacctgtt gaggttcctg 360
ctgcagcaaa atggaagtgc agaagtaagc cttctgacca ggttatactt gactacgact 420
atacatttac gaca 434

<210> 55125
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-E2

<400> 55125

gtaggcaagt agccctccct gttccatcgt acccagcaga gcatccagcc gaacaacgag 60
gcatgccgtc gaagccgaac gccgcgtctc gctcgtctt cctcgtttc ctctcgtca 120
ttagcgccgc cgcggccaac gatgacgccg cggcgccggc gacgatggag cagttcgccg 180
gcttccccgc ctccgacgac ggcgagggcc cttccagcga cttccacgtc gactccgagg 240
gctccagcg tcagattgat gaactggcct cgttctccga ctgccccgcg ccgtccgtga 300
cccgcgttct gtacaccgac aaggatgtgc aggctcgaag gtatataaaa gggataatga 360
atcaaaaactg gcctgttggt cgagaagatg c 391

<210> 55126
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-A4

<400> 55126

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gaagaaaagg gaagaaactt gtgatgacat gttagcacgg ttgtgctcga accaactgtc 120
ttgaccttga atggacattt tttatgttta ttttatgtat gatcagggtca acggcaagag 180
aaaccaatta cactgtatga gcttttagatc acacctcaag ttattctgta gatcttggtg 240
ctatttcatc tgatgggtca tgtttcatga tgttgactcc gtttcctgtg attgatttat 300
agcgagcctg tacgttgtat gtcatgcaaa 330

<210> 55127

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F5

<400> 55127

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tgtcccgatg gcccgcacga agcagacggc gaggaagtcc actggcggca aggcgcctag 120
gaagcagctg gccacgaagg cggctcgcaa gtctgccccg gctaccggcg gagtgaagaa 180
gccccaccgt ttccgccccg gcaccgtcgc gctccgggag atccgcaagt accagaagag 240
cacggagctg ctgatccgca agctgccgtt ccagcgctg gtgcgtgaga tcgcccagga 300
tttcaagacc gaccttcgct tccagagctc cgccgtcgcc gcgctgcagg aggcgtccga 360
ggcctacctt gtcgggctct tcgaggacac caacctctgc gccattcacg ccaagcgcg 420
caccatcatg cccaag 436

<210> 55128

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F6

<400> 55128

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ggctggtgtt ctgatcacc ccccgccat tgccgggact tgcttgagc aaagcggagg 120
gaaaataata attatttgtt tttaacttaa atgatttgcg tttcgtctct tgtactgcgt 180
cgagcgtcgt cttcaattag cgagtgatgt aaaattgtga ctgctaactt ggactgttaa 240
ttactggtga ttgcagcagc catgtgtaac gtcgatgacg atataatcat ggagcagttt 300
tacgcgc 307

<210> 55129
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F7

<400> 55129

cccacgcgtc cgcaagcttc tgagtttaca agaagcctgg actctaataa ttgatgaggg 60
attggcggct tcatttgtgg ccccggttac tgattcgta gaagatgata gccaaactaac 120
cattgaagag tatcagagga gttgggagca gaacgaggaa cttggcctga atgacatgga 180
tacgtcctct gcagacggg cttacaacac gaccagcaca taattttttt agttttgttg 240
tgccgaatgt atttgttacg ctatcagttt actttgatga actttcagtg tgtataactaa 300
tatcaacaac ttatatttcc tctg 324

<210> 55130
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F8

<400> 55130

ttaccattta aaattatcac aaaccttctg aacactacca ataacttttc ctatattaca 60
tgtatacata ctctgcatac cctttttaca acaccacat cacataatat ttttactcct 120
attctaccta atatacttac taccaccta ctttactttt attaactttt tacttatata 180
ctaacaatcaa caactta 197

<210> 55131
<211> 190

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-037-Q1-K1-G12
 <400> 55131
 cggcgcgctg gggacagaat cgcagttgca atctgttaga tgtcttctac cggcactatg 60
 tatttttttt tgtttgatgt gtaatgatgt tactgttcaa cgcttattac cctactatac 120
 tgttgcatgt tctttggacc tgtttcattt cgcacaagga ttggacttcc aatatcaagc 180
 tacattttac 190

<210> 55132
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-037-Q1-K1-G2
 <400> 55132
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 gattcctgct tgtcagaagt gtaacagaaa ctgtgtcagg cttaacgat gtttaaagag 120
 tgtaaatttc agttcattgg gggtagagcg tatgctgcac ataggccatt ttccagtgc 180
 gtgttactaa ttaatttggc cattgttttt ctctctccca aaaaaaaaaa aaaataaaaa 240
 aaaatccatc tgcaatgggt aagtgttgtt actgttgtct actattacta tccatgagat 300
 ctgtttggaa tatgcatcgg acttgtgggt aacatgaatg actttgggtc ttctgagata 360
 atattagcta cttacaca 378

<210> 55133
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-037-Q1-K1-G4
 <400> 55133
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 cttgcttgca ccacatcgga gggaaaataa taataatcgt gtttcaactt aaatgatttt 120
 cgtttcgtct cttgtactgc ttacagcgtc gtcttcaatt agcgagtgat gtaaaaatgc 180

gactgctaatt cttgaccgct aatttactgg tatctcagca tccatgtgaa accttgatga 240
cgatataatc a 251

<210> 55134
<211> 152
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-037-Q1-K1-G6

<400> 55134

aaaaaaaaa aaaaaaanna aaaaaaaaaa aaaaaaaagg gccgcccttt taaaaaaaaag 60
ggggcttcct aacgcgggag ggcgaggtca ttaccttttg ggtcggcccc cctaaattaa 120
ctaaattgcc ccccccttta acaacaacgg aa 152

<210> 55135
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-H1

<400> 55135

atcatacatt cctttgctag attgtatcat ataagcttca tcgaattcaa gggagaaatg 60
aacataactg ttgctttgca gcacagttta gcaagaaaaa ttaaccacgc aatgtgcctc 120
tgggttgctt gcaggggaatg cgaacatcaa tgggtatttcg gatacctaatt tctagttgtg 180
cacttgctgt gtcaatgtca caccatacat gtggttagaga gagacctaca tcctgaaacc 240
acatagctta cgggtgattat tgagacttca gagagcatct cgagcagcaa tcctgcatac 300
aattgcgtcc gggttttcat atgctttcat ttctccgcga ataatgagaa cttttggtaa 360
taccagctca tc 372

<210> 55136
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-H10

<400> 55136

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gctaccctct ggaccggtgc gtgcgcaagg aggtcttcac cgattacctg accggtatga 120

ggaccaagtc cctctgcgag gagctcatca aggtgctcga ggccatcaac catcgcaagc 180

acatatcccc gatgctcgag tgcctcaagg agtggaacgg cgcgcccctg ccgctctgct 240

gagctcatct gagctgcacg cacctgctcc gcacaaagaa agaaatacaa tagtatagcg 300

gctcatgaca gcgtttcaag atcgtttatt tacaaccaga ctagcagaag atgctcttta 360

tatctaccag tcgcttgtat ta 382

<210> 55137

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-H3

<400> 55137

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gcctcagaat gcgaaccgat gtctcgatcc tcacgcgaat gctgatgcta tgtgcttccc 120

tcattctgaag gtagtcctgc acaacatcat atgcggcggtg gtgcattaga gctgaggatt 180

tcacattgag ctgctaatac caattctttc caccaccttt atgtagcgat ttttttcttg 240

ttctgtccgg tgttttgaag gatggatgga tgttcagctt gataacctca cggtgacact 300

tgtgtgtgct gccgctgcct ctaggtatat tttggtacat atgtgtggtg atacattgtt 360

caggtcatct tttctactgc caaacctgg cccggagggc 400

<210> 55138

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-A2

<400> 55138

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cgggatttcg tggatattag gacaaaaact cgcattcttt ttcaaagaga agactatcta 120

aacaaaatta gacatcttcg tggtaaataat gcgctgacag aaatctacaa gattaccctc 180
tagacaacac aacttttgag agatgataat tttgcacaaa atgcattcac ccgatatgat 240
aagatctgcc cattctacat atatttttgc atgatgcgca acatta 286

<210> 55139
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-A3

<400> 55139

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gagtaatttt ataccgcaa cagtcgggc attctcgctg ccgacatgtc ctttcaactt 120
tttgttccaa ccccttgaca ttttccgctt 150

<210> 55140
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D4

<400> 55140

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agtggcaagt ggagtttgta tctggagctg gaggcgaagg cgaaaatgtt gctgccgtcg 120
tcttggcctc ctggcctgaa ctacacaggc cgggcgggtgc ccaatcagta tactgactga 180
cctgcattgc attacatata gagactgcct gctgcttact gtactgtaca tctttgcatt 240
tgggttcaag ccacgttttg gtgcttgat gatgtgaaga atggtattgg actggtgggg 300
gtttctttat ctagcaatag cgtacatgat ttgatacgac gtacaaaatg actgcttgcc 360
agtgaaaata tatccatttg ttgttt 386

<210> 55141
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D5

<400> 55141

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tgctggtgta atctaccttc atgttgggtc atgatattgc gatggtaact ggaaaatgta 120

cagtggatga caaatgcacc gttccaagtt taagttattt ctagagaatg tgactaaata 180

gcctcttggt 190

<210> 55142

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D6

<400> 55142

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tgctttgttc g 71

<210> 55143

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-E11

<400> 55143

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aaatgaacca tgttattctg gccgggcttg caaaccttgt cgggaaaaaa tgaggaggac 120

caacctgatt gacaggttcc tggaattaag ttcagttatg aatcctggta aggaagcaaa 180

gtagataaaa gtaaataatat tgagtgatgc agcccgtatg gtggcacaac ttagagggtga 240

ggcagaaaaag cttaaggaat caaatgagaa gctgcaggag aatatcaagg atctgaaaga 300

ggagaagaac gagctccgtg aagagaaagt gagac 335

<210> 55144

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-E8

<400> 55144

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gagtaaaciaa atttgggtgg gctttcatcc accctaaata catattttat aaaggctcct 120

aaactgatta aactcttcag cttcttaatt cttccttact tcatttaatt tgctattctt 180

gtttcatatc tgtatatgca tctaactttt ttttaaaatt taattttttc cttttgtgaa 240

cctatatcaa actttttttt tttggattca tccctttata tctaataaaa ataa 294

<210> 55145

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F1

<400> 55145

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ccaaaataaa aaaaccacta acctaaaaaa aatatcaaac aaccaaacta cgtgcccccc 120

ccccctttat tccccaaact ttctcccccc cctcccccc tcataccct ttcttattcc 180

cccccaattt caatccccct cccccctttt accccccccc ttccccata aacccccctc 240

cctccccctt tttttcccc tcttcccccc ccccttttcc cccacctccc cttttcccaa 300

aaatcccccc ccttcccccc cccccccctt tgtccccccc ctatttcctt tatttttccc 360

cccccttttc tcccccttat accccccctt ttttt 395

<210> 55146

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-F10

<400> 55146

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<210> 55147

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D3

<400> 55147

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aggttcaaca acttcaggat caattatagg ctgagaagca agaaaaaatg gacttcgtga 180
tgaagcggaa accattgata gtatgaagag gttgatggaa gaaaataaca accttcttcg 240
tcaactataa agcttcaatt gaagaaaagt gcctccatct taagtttggg tgactactat 300
aggacatgca gccttggtgg agctatagta gtagtagata tttatagttg ctctagattt 360
gaagttatag gattatTTTT aattatgttt aatgtttaat aatttgagtt gaagttataa 420
gatttgcttt gaatt 435

<210> 55148

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B4

<400> 55148

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ggacttaggg tctactattg ctatcgatgt agacaacgga ttgcaaattg gaaaaatggg 120
ataaaaaacgc tggatatttt tttttgccta aactacagct gtgctacagc aaattttgct 180
taaaagcaga aaaagtgatc tatggttttg ctgacaccaa gctgggaaat aggaagactg 240
aatcgacctc ttaagcgggg aatgtatcct tttttgctgc cacatataaa atgctaccca 300
tgcatacctg ggcaccttat aacttatgtt tggggatttg ctacaaagat ggtttcaata 360
tataggggta ctagaatgtc tgtggaaaac taccgtataa cgcacatttg agtg 414

<210> 55149

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B7

<400> 55149

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336

<210> 55152

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-037-Q1-K1-C2

<400> 55152

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tcaatgaaag gatcctctcc tctctgtcca ggaggtccgt agctgctcat ccatggcatg 180

atctcgagat cggtcctggg gctcctgctg tattcaatgt tgttggtgag atcacaaagg 240

gaagcaaagt caaatacgag cttgacaaga aaactggact gattaagggt gatcgagtcc 300

tttactcatc agttgtatac cctcacaatt atgggttcat tccaaggact ctttgtgaag 360

acaatgaccc aatggatgtg ttggctctga tgc 393

<210> 55153

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-C3

<400> 55153

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gtggctgaca cgtaataaag gtcattccaa aatgggaacc ccctgaatga tttgtcaatg 120

taaacatgat tgctggctct tgtatactgt ggcttattat tcacatcaat taaggataat 180

cctgattgga gcttatcggt gc 202

<210> 55154

<211> 126

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-C4

<400> 55154

cccacgcgtc cgatcttctc atatgtttaa actcagagga cagttcctca gatgtttaag 60
atcagacgag agtggatcat agtttttttc cttagtgatg attcctggct gctatgtgcc 120
ttcttg 126

<210> 55155

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-037-Q1-K1-C7

<400> 55155

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gcagcattac taaagaggat ggattaatca aaagagcatt tgatcttcta ggattctcgg 120
atggggatgt gcaggaaaca tctgaattcg atctagtctt catgcatggt gccatggaga 180
acacaagcag caagttagga aagttaggaa tgaagacaga tatcaatcgg ctcgacaaat 240
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tatctgtgat tttgagctat gggctctgctt ctggaaataa ggatgagttt tcccttttaa 360
cctcttcaac cgaaacagat tcagacttga atctactgcg tccacgccag agctacacaa 420
tgaaaacagg gg 432

<210> 55156

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D1

<400> 55156

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cagttcctgt gcgccgtgtg aagccagagt accaggaatc tgaagagcag tacagagggga 120
aaattgttgg tgtcgacttc aaggacactg gagaatcctc agggagcgtt gacgtcacct 180
ttgacttctt tgtacccaat gagaactaat tccctggact tctatcagag tgtgggtctgc 240
aatgtttcat ctgttcgttg aatttgtgag ccctctgggt agaaagttag aatgctttgt 300

tctctacagt gatgtaaata tctaggggcc ctgtttgctc catgtttcct gtaatttggc 360
tctggaattt tgtcagagac ctgcgttggc aggttcttgg taaaaccata acta 414

<210> 55157
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-D10

<400> 55157

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ctgtatgcaa atgcaaaaat attacttcca tcgttctaca aatccaccct tccaagctta 120
agttatttct agagaatgtg actaaatagc ctcttgttct tgcattacat acattaaact 180
gtcttctcct ttttaaaaaa atcaatataa tataaaaaaa atttaattat tataaaaaat 240
aaaaaaaaaa aaaaaatctt ttaaataaat taaaaggcc gccctttta aaaataccca 300
atcttacttc ccttctcttc caactttaaa actttt 336

<210> 55158
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B2

<400> 55158

gtcgcgaaga agacaaagaa ctggctcttg ggccggcaag gcttgatcct tgctattgtg 60
atgctgatcc tagctttcat ccttcatcag tttgggttta tcggcagatg atgggggtga 120
cttgggtggc tgcacagca tggaaataga ttattcgatg gcatgcaga gttccctctt 180
gctaacaact gcttaaaagc gctttggggg aaggctggat tacgagaatt ctttgtatcc 240
gtatcttatg aaagtgtaac tctgtccata aagctatttc atcctatttt taccagcaaa 300
ggtagtagaa aggaatcgag ccgaaactgt tgtgataaca agccgacatg taatatgata 360
atctccttgc ggtgctttca gttttaagta gcagtttt 398

<210> 55159
<211> 78

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-036-Q1-K1-H12
 <400> 55159
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 cccaaaatac acctatac 78

<210> 55160
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-036-Q1-K1-H2
 <400> 55160
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 gcgatttcgc gcggcgtggg gtcggcgatt ggctgcgcgg tcgcgggcaa gaagaagggg 120
 tcggtttcct taacgatcga ctgcaccatg ccagtgtagg acaagatctt gaaggtcgcc 180
 tcgttcgaga agttcttg 198

<210> 55161
 <211> 225
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-036-Q1-K1-H3
 <400> 55161
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 gcgaggcgcc ggcactcgca aggatgaggt ggtgacacgc gactacacca tcaacctcca 120
 caaacgcctc cacggatgca ccttcaagaa gaaggcacca aatgccatca aggagatcag 180
 gaagttcgct cagaaagcca tgggtactac tgatgtccgg attga 225

<210> 55162
 <211> 208
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-036-Q1-K1-H4

<400> 55162

cccaaaacca atggcgccct tgtgaaatga gtagccttgg aagggacagg aggaaaactt 60
gtagattcca ttagcagttt agcacccaaa accaatgggt gtctctgctc acagttccat 120
taattgctag ttgaacgggt tcgttggagc ccacaattag gttgggtccc tgtgagtaat 180
ttgggtaatc attaagacat tctcgta 208

<210> 55163

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H5

<400> 55163

accactcgt ccgccgaggc gcccacac ccgagaacta ccctcccagc acccaaac 60
acagccacag gaagagacat ttgaagccac ggaaggcaca cacaataaaa ccagcaaagc 120
ccacaaccac aagagcccc aaaaccaa 148

<210> 55164

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-H6

<400> 55164

gtccgaggac gcgtgggagg acgcgtgggt gagtagagct gccctccttg gagaagatga 60
gaggccgctt catgcagcag cttgaaatgc tgcgccgga tcacatccg cggtctaaatc 120
caacgcccta caaggtgagc gtgagcacca agctgtacga tttcatccac cgcctatggc 180
tgaacgaggc gccagtaggt gaactgcagt agatgatgat catataaaag aagtcttggg 240
tcatctgga tacagcagca attcatcgaa gaaaattaga gctcttctgc acaacatcaa 300
cagttgagcc catggcagga ttttgctccc caacttttca tctctaggca ccgggataga 360
ggcagggttaa tcagggtggc tagtttatac gtcccttaat tggggggatg ctatacaca 419

<210> 55165

<211> 70

<210> 55168
 <211> 184
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-A1

 <400> 55168

 ggcggccaag ctgtggaaac gagggagacg aggaggacaa gggaaagaaa gcctaccggc 60
 gtcgggggctc cggtcacct cggacanccc caaaaaaaat ctgcggtggc cgccggcggc 120
 caccaccata actgccatga tcagcatcct cgcgcaggac cgcctcctcg ggttcgccct 180
 gggt 184

<210> 55169
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-037-Q1-K1-A11

 <400> 55169

 cgcctgctgt acctgtcctt attcccgttc gtccccgcgt ccgcccggtt tggctgtagc 60
 atgttgtagag atgagaaggc tattttgtca aaaaaaaggg ggggggaaaat aaaaaaggag 120
 gggggggaaaa atataaaaaa taaaaatatt attaaatggg ggggggtttta atattatcca 180
 atatttattt aacggtaatt caaaattatt tactttcttt tttaaaccct taattctatt 240
 aattccccct ctttttccaa ctttttggtc tcggatttcc ttgtgtttcc cacctttttc 300
 ccctttcaac actttccctt tttttttttt ttccctttaa tctaattccc ccccccggtt 360
 ttttattacc aacttttttg aaaccctttt ttccccctt atttatcctt ttttaccctt 420
 ttttcctttt ccgtttttgt tttttttaca taattttccc cttttttttt tctttt 476

<210> 55170
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-A12

 <400> 55170

gccacgcttn ctaaaacata ttattatatt cataagacta tctaatacaa attaaagaag 60
 ggggtaataa aaaagaagg gggggccgct attaataatc caaacttaca tacccgttca 120
 tacaatatatt tagctcttca atagtgtcac ttaaatttaa ttaatttgcc ttctttttac 180
 aacttcatta ctttaaaaac cttttcttta ccaaaattaa taacctttca acacattctc 240
 ttttctccag ttgtcatatt aacaaaaagg cccacaccat tctccctttc taaaaatttt 300
 cacatcctta atggctatat ttactcccc tttaccttca ctttaatccc tataattttt 360
 tttgtttact ctcattttt 379

<210> 55171
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-037-Q1-K1-A2
 <400> 55171

acgaactggc tgccgcatgg aacgtgctga ctccgataat ccatgagata gatcagaacg 60
 gagtagttcc tgagctctac gaggctgggg acagatggcc tatcaatgct taccatcttg 120
 ctgctaaaca tgggggtgcga tgggatgacg actggtgagt cgatacatgg caaagattct 180
 cgatgcgcaa cgagattcat taccaatttt tgtcgttgta tcgcagtcag ctgtacaata 240
 tgccttctgt aatcggcctg atcaatgact ttcaaggaga catgtaaaca tggtttcttt 300
 cctgtcctgg taactg 316

<210> 55172
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-037-Q1-K1-A3
 <400> 55172

gagaacctgt caaagataga acatgtttcc agcactcaat tccatgacag accgtcagac 60
 gctgaagctc cagaggagaa agaggaggac atggacaaga ggccacctca gcgcagcaga 120
 ttatggagcg gaggagctta cgactctgat acagaggatc ctgacagcct gaaaagcgag 180
 ggtaaagacg taactgctaa cttccagatg aaggatgaac caaaagatga tctgtagaag 240

<210> 55175
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-A7

<400> 55175

ctcttttgta cataaaaatt catgatgtta taaggtaaga acaatatatt tacattgggn 60
 ggggccaaat cacatgcggg acggcaaaaa aaatctctct ttccttcagc tgtcactacc 120
 ataactggcg tgatcagcat tctcgctcag gagegcctcc tcgggttcac cctgggttcc 180
 gcctacatag acaagattcg tactctacca tcgccgtgcc atctaccgtt aaatctctga 240
 atccaacggg tcgccctact tttaaccaacc tggtgaaatt g 281

<210> 55176
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-A8

<400> 55176

cggacgcgtg ggggtggactg ggacaacatt aactgggtcaa ctagaaggcc acagatggat 60
 ttcctgtgac agtctgctat ctgtacactg gaagatgtag atgttatcaa ggaaggacag 120
 gctaggattg ctggatatgc actttcaggt ggtggccgtg gcattgagag agtggatgta 180
 tcagctgatg ggggtaagac ctgggtcgag gctcgtagat accagaaaga caatgtggcg 240
 tatgtgtcag atggacctca aagtgataag tgggcttggg ttctctttga ggccacatta 300
 gacgtaccag cgaatcctga gatcgtagtt aaggcgggtg actcagctgc anacgttcag 360
 cccgagaagg tagaagacat atggaatctg aggggaatcc tcaacacgtc ttggcatcgg 420
 atcaaaat 428

<210> 55177
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-037-Q1-K1-A9

<400> 55177

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gcttcagaag taagaactca tgttcggcca ctggatgcta gcacagcagc ccacgtggca 120
ggcccccaa gtaacaggcg agctacagtt gtgcctgaag aggtttcaga tgaaggagtg 180
ttccgtcgct ttgtcagact acttctggcc ttcattgtca aagtctttgc cttctttcac 240
atagtacgta gtcagcagga aacgaggggc aacaacctac tacctcctgc cgaaccagaa 300
ctgattttctg acgatcatcc ggcagtagag actttcaatg tagaccacat cagtcctgtc 360
attagagcgc cttcagagac ttgaanggaa ggtcgatgag cttggcagca agcctccagc 420
gattcct 427

<210> 55178

<211> 155

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-036-Q1-K1-E1

<400> 55178

gaccactcg tccgccaaga caatatgcaa tactgcagta tcccagcctc nttgagctgc 60
tgctaaccaa tgaaccacag aaggcttttag ttaaccacat tccaacgaa agttgactga 120
accaaccac ctttgccgaa tttcctaaac cattt 155

<210> 55179

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E10

<400> 55179

gcggccacgc tccaactcca gatcactctc acctcaacc agacaaacca atgcaagcct 60
agatacgacc atggacacca caatcaccgc agcaagaaga aaccaaaaaa acaaagctac 120
cagcatcaaa cacctcaacc caaaaaacaa gcacaacca caa 163

55180 55181 55182 55183

<210> 55180
<211> 94
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E2

<400> 55180

aattttccggg cggactcggt cgcgaggcg tgggaaaatt taccgagcta tttagtgtaa 60

ataaaaaaac caaaaaacaa aggaagggtt tttt 94

<210> 55181
<211> 249
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-036-Q1-K1-E5

<400> 55181

ggacggcaga atgcaacgtg agtatttcat cagtagtgtg tggagctcag gacctatcat 60

ggagcgattc attgcggtt cgtcctgccg ctgacgaata gcaactgact cgctggtaac 120

gcttctacca gtttatgtac ctccctctn acctataaac gtgtgcccgg ttacattttc 180

cttatatccc gaagaccctg atgccagagg atagatacgc cgaccacgtg gtgcctgaca 240

atatgactg 249

<210> 55182
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E9

<400> 55182

cccggccgac ccaactcgcc gatcgcgcg gtccagccta aagtgccagt tacttacagg 60

gtaaggctcg acacaaccgg caggattcca gagatggaaa ggtgcacaca acattgctaa 120

aagttga 127

<210> 55183

<211> 270
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-036-Q1-K1-F10
 <400> 55183
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 cccagtacga ccaacagcga ggacaagaca actacgcgac cagaaaggca ggaacacgac 120
 gccagagcgc ggacagacat gacgcgacgg ctgcactgca cccgcgcggc atctctccgg 180
 tccggagcac gcaagcgcag gcggcaggtg tgagacgccg tgccgcctaa ccgactgggtt 240
 gctttctatc tctcgcggg tcgatcggtc 270

<210> 55184
 <211> 170
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-036-Q1-K1-F11
 <400> 55184
 acccactcgt ccggcagcta gagcacaaac accaccagaa catccattat tctccaacag 60
 aacctacacc aagtcagctt tatatagcac aatggaagac ccatactcac actcacactg 120
 acggctccac gactcaccat ctctgcctga catcacataa cctcctcacg 170

<210> 55185
 <211> 274
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-036-Q1-K1-F2
 <400> 55185
 gtggacgtcg ctgatgatcc cgcccatcgt gatctagatg gtgaacctga tcggcatcag 60
 tgggggggttc agccgcacca tctacagcgt gatccgcag tggagcaagc tgctgggcgg 120
 cgtcttcttc agcttctggg tgctggcgca cctgtaccgg ttcgccaagg gcctgatggg 180
 gcggatgggc cgcacgccga ccatcgctctt cgtctgggcg ggcctcctct tcatcaccat 240
 ctgcgtgctt gtgggtggcc atcaaccgc cgtc 274

<210> 55186
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-F4

<400> 55186

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 accactcccg ctactagtat agtactaggc gcctccacct ccacggcggt ggggtgtttct 120
 cgtccggttaa tagctcggtt tgctttgctt gtgtttgtgt aagatatata ttagttaagg 180
 gcaataagct tgtactatta tgagtggcgg ccgaggagta cagtacgttc tcctctgtcc 240
 gatcatgcca tcattaacat taattaatgt gggagat 277

<210> 55187
 <211> 118
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-F8

<400> 55187

gaccactcg tccggaagca tcataagcgc cacaaaaact aaactaaaaa caaaaccaa 60
 aaaaaaaaaag aaatgaataa aaaaaaaga aaacaaggca aaacaaaaaa acaaaca 118

<210> 55188
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G10

<400> 55188

gaggaaacat caatacaact tccagaaact ggcttcagca atactattgt tcaaggtcag 60
 gttgatgtca atgaacaccg atttgatgga ccaagaacaa tcgaagaaat cggtccggtt 120
 ccattggatg agatccagat ccatgaggat gtcccagggc aaccgggagc agccgatgag 180
 atagatgagg tcccattttc tgacgctccg atcattggtg ctccattcag actgatctca 240
 tttgttgcta ggtatgtcag cggcgcta at ttggtcaacc aaagataact gtctgcatac 300

caggaattca ggacttctat gtca

324

<210> 55189

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G11

<400> 55189

cccacgcggtt cgggccgctt ctgagggcct actttatggt atcatgggct acgtggaggg 60
ggagctttttt ttcaccgact tgaccggtga cagcatgtcg agcatcttct acgccaaggc 120
cgggattgcc ctgaacgacc acttcatcaa gctcgtctcg tggtagcaca actagtgggg 180
ctacagcaac cgcgtcgtcg acctgatccg ccacatgttc aagaccagc acgctagtat 240
agagatagat ttctgcctcc ctatcgtggg tcgtcccaa tggcctttgg tcgcatacca 300
tctttgctgc tttgttatgc ttat 324

<210> 55190

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G5

<400> 55190

cccaggcgtc cgaaaaaaaa aaaaaattac taaaaaaaaa aaaaaaaaaa aaaaaaggga 60
gagaaaataa aaagaaaaaa aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaacggaac gacgacaaga agaagccac 159

<210> 55191

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G6

<400> 55191

gaccgactcg tccgcccgcg cgtccgaaa atccgtatgt gcgcttcata cgattccgag 60
atccgtgcgt cttgtcggct gccatgatgc tgcgcgcggc gggcaggcga ctctcggcg 120

<223> Clone ID: LIB3088-036-Q1-K1-H10

<400> 55194

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tcgactttac ccagcagcat gccagccagg cacaaactag tgaaggacgc acgggaccga 120
ggctgctacc gctaaaccag cgacgatggg gatccgacga atgcatgcat aaacgccatc 180
atagatcaca acgatcccg 199

<210> 55195

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A12

<400> 55195

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aaacagacag gttcaaaca aaacaaagcc caccacaaaa aaacaccaa aaaaaaaca 120
acaaaccaac aaaaaacaaa caaaaaaac aacacccaac caaaaacgac ccacaccaa 180
accccccaacc accacaccca aaaacccccca aaaaaccaca aaacacaaaa ccccaaacca 240
caacacaaaa ccaacaa 257

<210> 55196

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A3

<400> 55196

cttagcccct gatgatcata tcaatcggtc tgaatggact tttaggcaaa aatgtactgt 60
tgagctcacc cacaactggg gcacggaaaa tgaccctgaa ttcaaaggtt accataatgg 120
gaactcagac cctcgtgggtt ttgggtcatat aggagtaact gtggatgatg tccacaaggc 180
atgtgaacgc tttgaacgct ttgggggttga gtttgtgaag aaacctgatg atggaaaaat 240
caaaggcatc gctttcatca aagatcctga cggttactgg atcgaattat ttgaccagac 300
cattgtgttg gtgctttttc agcatcttga tgaacagttg tggttcctta tttggt 356

<210> 55197
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-A4

 <400> 55197

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 gcagggattc atgggggtgg cgtgccgcaa tagccagccg atgcggctct actccagcct 120
 gtggaacgcg gacgactggg cgacgcaggg cgggcgcgtc aagacggact ggtcccacgc 180
 cccct 185

<210> 55198
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-036-Q1-K1-A7

 <400> 55198

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 gtccttgccc cttctcctgt ctctgggtgg gaggataggt tagtcgttgg attaggttgg 120
 ggagcgggag gtcggaggag tagttaggta atctgtccta gtccatcaat caacgacgtg 180
 ttccattatc tctaataaggg ctatcgat 208

<210> 55199
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-A8

 <400> 55199

 atatgtcttg ctaattgctc ataactacca ctggcaatgg acttggtagt tctctgctgc 60
 ttccactgcg gtgtatgttt acctctactc catatattat taccacatga agaccaagat 120
 gtctggattc ttccagacca gtttctatct cggtacact ctaatgttct gcctaggctt 180
 aggaacacta tgcggagccg tcgggtatct aggatcgaca ttgtttgtga ggaggatcta 240

caggaacata aagtgtgact aagtgaagat aatatcgccc cattttgggt catcgcatag 300
 aaaatgtatg gcatagcctt atttgattga gcgatcactg attctaaa 348

<210> 55200
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A9

<400> 55200

cgcagccaaa gttgaaagct gagttggata caccaactct cttctaaggc cctgcatatt 60
 tccacagggg aggctgtgat atgtttcttg aaagatgacg actcagttcc tgttgtcgat 120
 gattggggag gttgtgttgg tattgttcac cgtgatgatt gtaccttgat tgtaccaagc 180
 tggatgcacc tcttcttctg cctacttcaa ccaccgtgga gcacgttatt gacctactcc 240
 ttagggagaa atccgagatg gtggtggtga agagcggtaa catgtacgaa ggcagcttat 300
 gacccttggg tatttttttt 319

<210> 55201
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B12

<400> 55201

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 accaagctcg acttgctaga gtcccaggcc atcttatccc taactgcttc cctgaggatc 120
 aatggagctc tgaacgtaga cgaaaacaag ttccagacca acctggagcc ctaccaagg 180
 atccacttca tgcatgcgac caacgctcca aacaaagctg actagaaggc ccacaaccaa 240
 caacagtcac agagccaaaa caac 264

<210> 55202
 <211> 154
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B2

<400> 55202
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agccccggttt tgaatggggg caggcggggc ttttttaccg ccgccgagtc ctacttcgac 120
ccaagcttcg tggtagcaac gccggcaaag ttca 154

<210> 55203
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B3

<400> 55203
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tgctttgtga ccctagaaac cagctaggca caagcagcac ctcgggcccc tcctcggcga 180
gacgtctact ttctcgagge gtacagtgc cgttcacctc tcgggcgtgc ctagctcgtc 240
atcgggtctcc aatgccacgt tcgtgctact actccaatcg ttgctgacct gggtgatctc 300
cactgacttc cg 312

<210> 55204
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B4

<400> 55204
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ctgagctccg ctgctagaga aaggcccgat tgttctaacc ctgaaggaac tgctaaacga 120
catcgaaatt caaaacccga agtacaagag gcaccgccgt ctactcgaac cgagtcaaac 180
agac 184

<210> 55205
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-B5

<400> 55205

gctcatctta cttatttgta atttggtaac tctatttttc cagaagattt ttatttttct 60
aagagagaat taactaattt ttcttagtaa aatagaaatc ccttagaaaa atgagggtgc 120
caaaccagct cttaaaaatt tgcctacgga ctctgttctt ctgttatttc ctgcttgcta 180
tcgggtgat cggtatacct taaactgatt gtaagttatg ctttagagtg attgtttatg 240
aacaaaacta gctacatttc tgactgctgc at 272

<210> 55206

<211> 186

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-036-Q1-K1-B7

<400> 55206

ggcagatgaa tcaggtcgaa aaggctaaat ccgattgaag accacatcag caggcccaag 60
aanaagttta gcagcaaaag cggcgccatt tatcgagaag atgatagagg atcctcatgt 120
taatgcacga ctgcaacagg acttattggc agatgaaggc gagaccccgga gtttatttgt 180
ggtgtc 186

<210> 55207

<211> 154

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-036-Q1-K1-B9

<400> 55207

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accaacgaag acccggcaac ccaaaagcaa aatcacagca cgaacaacaa caggcactca 120
cccgacaaga ccacaacaag ctaaaccgga acaa 154

<210> 55208

<211> 182

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-C11

<400> 55208

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 ttgtctacgc gtgcgtgtga gggatgatc gagcgccggc cggcctgcac ttccgccgtg 120
 ttgtgcgtac gtacgtacgt atacatgtat gtatgaatat gcccgcggtg gatgcacgaa 180
 ta 182

<210> 55209
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-C2

<400> 55209

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 ccctcatgct gcgtctcgcg tggcactccg cggggacgtt cgacgtgtcg tcgaggaccg 120
 gcggtccctt cgggtactatg aagtgcccg cggaactggc tcacggcgcc aacgcggggc 180
 tggacatcgc ggtgcggctg ctcgagccca tcaaggagga gttccccacc ctctcctatg 240
 ccgatttcta ccagcttgcc ggagttgtgg ccgtcgaggt caccggtggg cctgagatcc 300
 ccttccaccc cggtggggag gacaagcctt agccgccacc tgagggcccg cttcctgatg 360
 ccaccaag 368

<210> 55210
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-C3

<400> 55210

cggacgcgtg ggaaaaaaaa aaaaaaaaaa taaatataaa gaagggccgc cccacaagaa 60
 gaaggatgcc aacggacgcc tgcaggcgac ctaaaagccc accaagaggg ccaccaaaaca 120
 gcaaagcacc ggccgacggc caacaacgtc acgacagaaa aaccgcccga gctacccaaa 180

taaaccgcc

189

<210> 55211
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-C4

<400> 55211

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tagcgagatg ttttagtcatg agttgcgcac aactataacc aacctcccaa gtacaaagca 120
taccagtata ttttgtgggt agtggcactc gtctagctgt ta 162

<210> 55212
<211> 114
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A1

<400> 55212

cgtcgcccca cgcgtccgcg tgtcagtttt cgccgtcatg ctagcgacag ctctggtcgt 60
tatcagcacg aaaaggcctt acagcttgtc gtcgagggaa aggggaggag gaggc 114

<210> 55213
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-D4

<400> 55213

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aggaagtcag ctttaagacc aaggatgaga agaagtcgat aaaggctgag gtgaccaagt 120
cccagaaggc acagacgaag ggagcgggtcc agaagggttc caag 164

<210> 55214
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-D5

<400> 55214

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tctgacttag catgtgctga aatgtccaat atatagcatg gattacttag attttgaatg 120
tgctcaacat gctgaatcat catagatatg cactgctgag tgagtttgca tgtgttacct 180
aattcctaac gcttcacat tggccttcgt atgcttgag ctctgatctg gagctagcta 240
tatcacttca acagcaagag tttgag 266

<210> 55215

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F2

<400> 55215

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cgaagactct tcctgccgtg cgctcgctgc aggttgccct tgggtcaatc tatgcttagg 120
taaagaagaa ggcgtcgagg cggatctcca ggagtttcgg ggctttgatg agttcgagga 180
ttaggctagc gactaccccc agtcagctgc ctgtggtggg tttatttacg ttggctacgt 240
ttctatttct ggtactttga ttatattatg ttaattgact ctagtctttt atattattac 300
ttactcttta ttgtattcga aagcattgtg ctatgatgag tcattttattt aaatctcttg 360
t 361

<210> 55216

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F7

<400> 55216

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catgcttttg tcgggcttct tcaaaaggag agaggacttt cttcatgaca tgatggcatg 120
tgaggcatct tccttttctc cgcaaccctt gtcatggcct 160

<210> 55217
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F9

<400> 55217

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 attatcgcg tagactagtc cattgctaac tgactacatc atcgactcag gtgatgctat 120
 cgcacatcaa gacaaatgta gccactgagc cttgatcgat ccgggggttg gtgtggaggc 180
 aatgaatact cttagtgggt attctaacag gagatcatac actacacttt atatgggaac 240
 tggaactgag ggtgggatta caagtgctag aatcagggtg ccaaattag gatgtgaagg 300
 attcatgtgc tcaagtcac tgtcaatcac tcaaagaaat tcaagattga tccattctac 360
 ta 362

<210> 55218
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G1

<400> 55218

gtgaaacaca agtcattctg tcacatatga tcgtagatct caaccagatc ctattctcgt 60
 ggtcttttc aaacatgggt ggtgcatatc aacaataaca gaaagtttgt tactcaattt 120
 attcatcttc ttccaactga tctattatct tacacttcag t 161

<210> 55219
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G5

<400> 55219

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 tgtgttccaa aagcaagttg aggagcaata tctctcaa atgtggagagg agctggagag 120

gatccagaat gcccggaacg ctcgaaaggc taacgggcat gctaacaatgc aagaaatgga 180
 caaggagctg gacacacaca gggcggagca tgggtccgaag actcggcgag ttcctgagga 240
 gggcgggttat gatgactact aatactctta ggacatggct gcttaagact aggt 294

<210> 55220

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G8

<400> 55220

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 gtgacttttt acagcatcgg cgtactaagt ggctcacaat ctatacaaca ttaactctct 120
 tgattcacga gtttgttgat tgttacgata tgccctttga ttcaagataa gaacttctga 180
 acccttacct ttactttta 199

<210> 55221

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G9

<400> 55221

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 ccgggtttga ttgctttgtt tgatgttgat ggaactctta cagctcccag gaaggtggtc 120
 acaccggaga tgttgacatt catgcatgaa ctgcggaagg ttgtaactgt tggagttgtt 180
 ggggggttctg accttataaa gatatcagag caacttggca gcacagttac caatgactat 240
 tattatgtat tttctgagaa tggctcttggt gctcacaagg aaggaaagct cattggaact 300
 caaatcttga agtcattcct tgggtgaagaa aagctcaagg agtttattaa ctttacacct 360
 tattatatt 369

<210> 55222

<211> 204

<212> DNA

<213> Zea mays

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \sum_{n=0}^{\infty} a_n x^n$, where a_n are the coefficients of the power series. It is shown that the function $f(x)$ is analytic in the disk $|x| < 1$ and that it satisfies the functional equation $f(x) = x f(x^2) + 1$.

gaatttt

427

<210> 55225
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D5

<400> 55225

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cgagccattt gatcgattcc tgatggcgcc caaggccgag aagaagcccg cggagaagaa 120
gccggcggag gagaaggccg agaagaagcc aaggcgaggag aagcgcgtgc cgagcaagga 180
ggcgggcgag aagaagggaa agaagaaggc gaagaagagc gtcgagacgt acaagatcta 240
catcttcaag gtgctcaagc aggtgcaccc ggacattggc atctcgtcca aagccatgtc 300
catcatgaac tccttcatca acgacatctt cgagaagctc gccgccgagg ccgccaagct 360
cgcccgtac aacaagaagc ccaacattac cttccgggag atccagacct cgggtgcgcc 419

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<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D8

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ggagcatgag ctcgactacc tgctgttcat cgtccgggac gtgaagggtgc agccgaaccc 180
agatgaagtc gctgatgtga agtacgtgaa ccgcgaggag ctcaaggagc tcatccggaa 240
ggctgacgct ggctaggatg ggggtgaagat ctgcccctgg ttcaagctgg tagtggacaa 300
cttacctatg ggctgttgct accatgtcta gaaaggcacc c 341

<210> 55227
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E11

<400> 55227

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gtcgaatcct ctgacgcagc atgcgtaaaa tggcggacgg aggggcctag gcatcgccgc 120
tgcgggccccg gcggcgcgtc ggctctaggg acgagcttat aatattgtgc cgcataatcg 180
atcaagacag gctcgcttc cagattccta tgatacacgt ttatcgtaac caaccatcaa 240
tggcagagaa agaccaggtt caagtgattc ggaaagcact ggcaaaaaca cttgtgatct 300
attacccttt tgcgggtagg ctttaaggaga ggcctgacca caagttaatg gtggattgta 360
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<210> 55228

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E12

<400> 55228

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ctgcggctta gggatttgag caggggtcaat caggaactac ttgttcagac tgaagagctt 120
ctacagaagg aggcgaatga agacgctcag tttcgtacac aatttgggag tcgttggtact 180
agaccttaat caagcaccct aactaagaac attcaggata gattgaatct gtttgcttct 240
aatctgaaga aagctgctga tagtgattct ctgattgaac gaggcgtgaa tgagaact 298

<210> 55229

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E4

<400> 55229

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ggcatctggc aagcctaatt tgcttactct tgattatgtt aacatcagtc cattttccct 120
tccagcaaga aggacaaagg aattaagagc tttgattgga tggaggtatt acttcagctt 180

attcttagag ttgtcagata ttgccatgcc cttcataagg gttgctatca gcaaagtgag 240
ctctgcggtg tcctacttct ggggtgtcaat gattggaagg tctcttgggc tgattttctc 300
agggattaga caatcactag gctggaaata agcttatacg gtcataacctg ttgagttttg 360
agtctgactt ctgcgactga atgaatgtct gttaagttat gcattgtaaa tctttgagat 420
ggctgtcaaa aataaaaatt tt 442

<210> 55230
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E6

<400> 55230

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caaaaaaatc tatcttaaata ctaaacgaga attcttaaaa attgcttgcc tatcacataa 120
ttattttata cacaacatta ttccctcaac ttacttttga ttcaatctta taatctacta 180
tattctctta acaaattcta ttctttttct tta 213

<210> 55231
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F10

<400> 55231

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acctctgcct ggacggtacg agtgggtccc agtactccac taggagtgtc atatggtgat 120
aatatgggat tacaagagcc attagactgg tattttaaat ctaacaacta gaagaagctt 180
tgactaacca tttagattgc ttgaggctct tggttaacaa gcttcaaagg aaacgaactg 240
tttagaaaatt tccaatatcc gattagtaga ccagtagtgt ctttctgatc tgaaagggtg 300
accggggggg 309

<210> 55232
<211> 178

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-D11

 <400> 55232

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 ctcaggcaaa ctacctgagc taattggctg aatgacatac cttaaacaatg ctaacctgta 120
 tgacaatgcc tttgcccgtt tgaaccccga aaacctctc tactctacca aaccttaa 178

<210> 55233
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-B3

 <400> 55233

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 gtagcatttg gaagaagggg gcgccggggc gcaaggcagg cggccccagg aagaagtcgg 120
 tgacgcggtc cgtcaaggcc gggctgcagt tccccgtcgg cgggatcggc cgctacctga 180
 agaagggccg gtacgcgcag cgcgtgggca ctggcgcccc cgtctacctc gccgccgtcc 240
 tggagtacct tgccgtctag gttctggagt tggcttgga cgc 283

<210> 55234
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-B7

 <400> 55234

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 tcgtttggtt agcatccaag ccaggctatt agtacgataa atgtcgtcta taaacatgtg 120
 ttctacgtt gccacatgct gagtcaatct gtatacatct agctctatgt ggtcagcttc 180
 gtttaccaca aatagcatac atgtattgat atatcttctt tgaaagcatt ctattaataa 240
 tggttgtttt ctttaataata tattaataag tgctattctc tctaaaataa tctattctta 300
 ccttactctt ttctttctta tttttaatct ctttattatt tttattttta ttttatatta 360

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398

<210> 55235

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B8

<400> 55235

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gtatggtagg tgatcgagag cagtgcgtg taatataaat atactcttgt tgttcaccgt 120

acgacgtaca gttgctcttt tgtagcactg atctcgtttt tcattcatat gtaatctcta 180

attcattcgt aaggctgctt tcaagttcc 209

<210> 55236

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C10

<400> 55236

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gtgggagggg atcatacaga gtgggccata gcaactctat ctgggcgcca cccgatgagc 120

cactgcgtcg cgacgcagat accgaaagca cctgctgaac gagaccatgc atgcggaaaag 180

taagcccaaa ggtgcacgag tatagctctg ctgaaaaaat acatagatgc aaggactccc 240

aacctgtgaa accattcaag 260

<210> 55237

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C11

<400> 55237

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gagcacgacc aacacgggag agacgcttcc atggatgcta gcgaaacatg acggcaagca 120

accgatcaag actagtctac ccaggccgct agactgctcc aaggtcctat acaccgtgga 180
tactggacaa attgatccag cctttgggtcc tcaacacact tcacaggaac acgatctaaa 240
gacaaccct gaaatctcaa accaagcatt ctcagcaaag cctcaactat accatgaaag 300
gg 302

<210> 55238
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C12

<400> 55238

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acatgcagat ggcactttct ctccgcacca tcgtattctc aacagcgccg agccacaaca 120
cgatgtactc atacaaagac gcagataggc gtcgggagtg ggtcgctcat cttcaggctg 180
gtgcaggcat tgatgccgac agtagcccag atgacgaaca acgtgaatgc gagaataagg 240
ctgctgcaact agctcggggc atcgatcttg cagagtcagc tttttagtag acagaatagt 300
gtgctatggg tatcgtttag gtcttgctca tgtgtctttt actcactttc cgtaaaaaa 360
agatggcatt 370

<210> 55239
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C2

<400> 55239

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cggcccacca tatttacaac aaggagaaca cttgtctcc gtttgctgga cttgcgtttc 120
accactgga tgggtattctg caagcaatgc cgcattgtgt tgcgtcttc ctcttcccaa 180
cgcaacttcag gacgcacatc gctctcgtgt tcttgaggag cgtgtggacg acaaacatcc 240
acgactgcat tcacggcaag ttatggccag tcatgggagc ggggtatcac accatccacc 300
atacgactta ccgccacaac tatggtcact acaccgtctg gatggactgg atgtttggta 360

cgctccgtga gccagatgat atcctcaaga aggcctgagt tcgtcgtagc tgtgggtttt 420
ctactgtgct ggatgtgctt ggtctgttct gt 452

<210> 55240
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C4

<400> 55240

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cgggagtgcc tccaccactc caaggagttc cagcgcagga acaggatcta caaggaggag 120
caacgtcaga tcagagctgc tgctcgtaag gccaaaggagg aagctgaggg tgccccctgct 180
gttgcagcac accattagtc tccctgtcta ttttttgtgt tgttgttttc tgtaaactca 240
tctttggttc agttatgatg ctaagggcaa ggcaataatc tccagctggt ggactacaca 300
gatttttttc cccatgactt aaatatcaag actcattttg tgct 344

<210> 55241
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C6

<400> 55241

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tcgcaccaca caggcttttcg gcaactctcc gccctcgcca tggccatgac cgtggcagcc 120
gcctggcttc cgtcgaccgc ctctcgccgg agaatttat cctctccgct ccctccgttc 180
gcggccccta tctccatcca catgccacgg ctggcgccgt ctcccagtc catccatcga 240
aagccgcgcc tcttcgtcgc cttcgcgcac ctcgatttct ccagagctat tcaa 294

<210> 55242
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B12

<400> 55242

tgatcaattc acacatatag gatggacact tctgacgtgc gggataccag ctgattatgt 60

ggatcagcac taacatacac atattcaciaa caaagatggg aatgcacctg ttgaaagtgt 120

tctagcatcg gataatctac ccagaagggt caagagtctt tctatatgga caagagactt 180

acatgttgta aaaccaatc tgttgccgag ttcaaggatg tacgggacta cattttgtca 240

gaatgcccga ttgaactttc aactctctta tctgagggtca aacaagaacc attcaacctt 300

tctgaccact atgaatgggt tacttgtgac ataaactttg 340

<210> 55243

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C9

<400> 55243

gggtgctggg gaggggccga agctgtagag acagatgctg gttctgttct gcggtgcttt 60

ctactggcag cagcatcaga atcacaaaca acaatggcca acactaactt ggaagatgtc 120

ccctctctgg atctcatgac tgagctcctt cgctgctctca cgtgctcttc caaacctgac 180

aagcgtctaa ttctcattgg cccacctgga tctggaaaag gcaccagcc accaatcata 240

aaagatgagt actgcttatg ccacttagct actggtgata tgtaagagc agctgtcgca 300

gctaagaccc ctctcggtgt caaggctaac gaagctatgg atcacggaga acttgattct 360

g 361

<210> 55244

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D10

<400> 55244

cgggtcggcc cactcgtgcg tcgattggta ctacacctac atgctgatag ctgacgaggc 60

ggaaatcgga ggccagggtg ctaccatcta ggaggtgctg ctggtatcat gcaccaggtc 120

tactgtccc gagaacacga gcctacagac gcgctcacat gtcgagagct ccgtttgccg 180

cacaatacct caacgacact gtgccagaca cagtggactc accatcgaca gaggagtcta 240
atgaccggag atcatccagc gcactatata tgcgaactgg aactgtgggt ggaattacaa 300
accgctagag tcctcgtgcc gcctgtggga tgtgaaggat tccatgcact ccagtcactct 360
ggcaatcact caaagaaatt catgattgac ccattctact agcaagatt 409

<210> 55245
<211> 236
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-G6

<400> 55245

ccatggcctc tctactctg ggcgcgacgg catcngacgt aggggtatcc tctgaggctg 60
gatgctancn tgggtgtgtg ggacagtggg ctgcactctc ccttggcttg tacacatata 120
gtagtgaaca tgattcattt acatctattt tcttccacga acagatctta taccataaca 180
cactgaaaca cgtcggagtc cggctctctt tctaaaaaaa aaaaaaaaaa ttaaaa 236

<210> 55246
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-G7

<400> 55246

gaagctcggg tctattccg cctattcttt ctgcgtataa catgaatccc acctgtacgt 60
cttcttagat ccagagctcg gttcncctct tcttctctct ttatctttcc aatcactcct 120
tctcctaatt caccaattcc ttcaccaagt tcaattcttc ttattctcat attactattc 180
tcaattgttt ttttagaccc ttctcaattt attcttttta tgtacttata tattatatat 240
cttcttcttt tttactcctt ttttttttat tatcattttt ttattttcct tctttatttt 300
ttattcattt ttttctatc actcttttct tttacttatt tattatcttt ttacatttt 360
ttctttctct tttcttattt ttttttttaa tcttttttct ctctcttttt tactttattt 420
cattttattt t 431

<210> 55247
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-G8

<400> 55247

agaattctct tgtggatttt ccgacctggg cttgattagc aaatggctac agtttgttcg 60
 atgtttgtca tgtattttga cagtgcctaa ctttgtgttg gtttatgaag ctgtcctggc 120
 ggacaatggc aggctgaaat atattgaacg cattgcggag agatttggtg atttgactat 180
 ggaacataag gnggagatga aggttgtggt caggacagtt atttcactca ccaaggagga 240
 ggagaaagaa ctcaaggaaa ccttgcanga tatecttggg gaaaacaaaa ctattttggt 300
 tgaacagaag attgactaca acatcatggg aggattagtg attgaa 346

<210> 55248
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-H10

<400> 55248

gcgtccgaga aattcattta gcagaggccc aaaaacaagc ataccgtctt gtgaaaagac 60
 acagagaact tggacaatct ttggcggact tcngaaaggc gattaagctt ttgggctctt 120
 gtgaaggaga tttgatggaa aagggtgtttt ctgaagtggg ttcaaagtca gagatgttgt 180
 caataaagct acaaagagag gcagacaacc ttctctttaa ctttgaagaa cccttgaaag 240
 attatgtgcy tgctctacaa tctataaaag ccactatgct ggatcgagct aatgctttca 300
 agcagcactt tgatttggat caagagaaga agtattaataa gcttaatctt gaaaa 355

<210> 55249
 <211> 319
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-H5

<400> 55249

gtccagctgg cactactggt ccagcctcca gtccacatcc tcgtccaggt gcatactgca 60
gggagggcca cgctnnacac nntataaatt acgtactttc gccaatctta ctccacatac 120
ttgtatactc atgtattaca cccatgctta ttgttgctct caaccactac tagcactact 180
atgtgtctag ttccataatt acaagtacct ctcccctcat attaacttga tcattgtccg 240
tgtataatgg actatttgcc gaaaataaaa tatattacaa tccattcttt ctaacaaaca 300
aattgaaaca tctttaatt 319

<210> 55250

<211> 200

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-H8

<400> 55250

ttaaaaaaaa aaaatcctaa cgtgggtttc ctttaaaagc tgggtggttg cttcacctn 60
tttacatttt tagtctaggg ctcccttttaa attgtttgca tagtggctcg atttttttac 120
cccaaaacaa ttctcatggt cgtctgcac ttcttcttcc accttatcta tcaaccttat 180
gttcatcttc atctatatat 200

<210> 55251

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-A3

<400> 55251

gcgagccata caccaattta gggctgcccc aaccctcacc tactacattc acgaaacctt 60
gcaccttctc aaaagtccag cgagcgaaag cagctcctc aaatgcacgg caacgactaa 120
tgcacattg ccaatcacca gaggaagagc at 152

<210> 55252

<211> 282

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-A5

 <400> 55252

 cctcgtagca gcagcaccag cagagtctcc ttcctctccg gcggcgatgt ctgggcgcgg 60
 ggagtgtgc taggggctgg gcaaggggtg cgccaagcgg caccgcaagg tgctccgcga 120
 caacatccaa gggatcacga agccggcgat ccggaggctt gcgaggagg gcggcgtgaa 180
 gcgcattctc gggctcatct acgaggagac ccgcggcgtg ctcaagatct tctctgagaa 240
 cgtcatccgc gacgccgtca cctacactga gcacgctcgt cg 282

<210> 55253
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-E5

 <400> 55253

 taaaccaa tcaaagtcac agcggcgtaa ctctcgtcga tgtctggccg cnncaagggc 60
 gggattgtgc tggggaaggg cggcgccaat ctccacctca aggtgctgct tgacaacatc 120
 cagggcatca ccaagccggc gatccgcagg ttggcgagga ggggcgtcgt caagcgcattc 180
 tccgggctca tctacgagga gaccgcggc gtgctcaaga tcttctcga gaacgtcatc 240
 cgcgactccg tcacctacac cgagcacgcc cgtcgcaaga ctgtgaccgc catggacgtt 300
 gtctacgtc tcaagcgcca tggccgcacc ctctacggtt tctgcgggta tgcgcccc 359

<210> 55254
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-034-Q1-K1-F2

 <400> 55254

 cactttgcta tgcataatat tgtttaagct caaacgccta ttatacgtgc gcattgcgag 60
 ccacccgtgc agcgacggtg tggcttgacc agtacaaaac tgcttcccat gtacagaatt 120

gcgtgaagga cagaaaatta tgatgatcac atttagcagc attgtctatt gcatgctgga 180
 ccgctggagg catatttcag tccttcatgc agccagaata tgtccgtgac agacccaaaa 240
 tcttgacgag cttattgaca ttcatatgcc accgagacat gatcactggg tactgtacac 300
 caacagtatc taatcagtct actcaccctg gcaacctgcg cgtcaattaa ttaattcatc 360
 gattgttctc ttcaattaat taattcatcc attgaatcat tgttgttcaa ccccttctat 420
 ttcccatttt ttttt 435

<210> 55255
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-F5

<400> 55255

gtatataaca tgtaccagct gaaactagat atggctgcac tgntccagcg aagcagcatc 60
 aagagcagcg tgccacgac agaagaacct cctcatccac tcattcttag gctgctacca 120
 ataggaatat gtatgtgaat ttaaagccat atatgaccaa ggaagaatgg gaggaagacg 180
 aacaaagcta gctagactag actgcagccc ctctaattcca tggccattcg ctgattaata 240
 cgataatatc tcttatttgt tggtttcttc tagcttgctt caatttccta gtacagcagt 300
 ttatgtagta tttcctagat tgttagcgca aagctgcctt tttcacccat ggcattccact 360
 ctagtgggtg ccaggtagtg tcgatccaat ttaggtataa aggtcactt 409

<210> 55256
 <211> 504
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-F8

<400> 55256

cccgggccga cccactcttc ctcttactct ttttctctt ctgccccct gttttttttt 60
 gtgagncggt gattttcttt agttcaattt ttaaagcttc aagccgcgac tcttttnnct 120
 tcaacttccc atccaccttt tccaatttct tctttatct cttttctctc ttttctctaa 180

atccattttt ttttattttt tttttttttt catatcccct ctctttatct ttcttcattt 240
 tatatccctt tatatatata taccttactt tattcttttt attattcttt tctatattct 300
 attctttccc tttttctttt acttatttta tttttcatct tctatattta ttatttttat 360
 tcctattttt tccttctttt tatcttatat ttctttcttc aattctttct actcattctt 420
 ttttttttta tataaaattt ctatatttta cattttcttc cttattttat tctcttcata 480
 tccattaatt attctatctt attt 504

<210> 55257
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-E12

<400> 55257

gattcaacc tgattccac tagccaaagt tctttccac cgtttaatt cctcgagt 60
 gcatgcatat atgggggcga ccgcgtgtca ctgcaaaaag tccccaactc cgattgctat 120
 gctgtaaata attgccttcc ccgaagacct cccattcctt ccttgattaa aaaaaatcac 180
 gagacactgc cattcaatgg tacaaaagac cgagcttgtg aatgtcaaatt ttctgcgcaa 240
 ctatcgattc ttctgcttac aatatgcttg ttttaatcaa gctttacttt ctttttcttc 300
 ttaagtactt ctccatgt 318

<210> 55258
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-B8

<400> 55258

tcctttttan natttctttt ctnttctntt attttatatt cattttttct taatcaacct 60
 ctttttaact ctctttttat tcctttttta taccattaa ctatccaatg tnttcttcca 120
 caatcaattt cctatttcat aacttccaat cttaataata tattacctat ctaccacntt 180
 ttttaatttct tctttttcac acctcaaact caatagttct attctttgcc tcatattttt 240
 taccatacat aatacacctt tttttttttt cttttctttt cccaattttt ctttttttaatt 300

ccttcattat tttttt

316

<210> 55259

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C11

<400> 55259

tctggggaac caacctgttt aatggaccta gccgcctta ccggctcgtg taaatcctct 60

gtccatcaat tctgtaactc tgttttatcg attaataaaa agaaccgggc ttgctcgccc 120

cataaaaaat ttaaaaaaat aaattatttt t 151

<210> 55260

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C4

<400> 55260

aaatccaata attttcccca ttacctacaa aaaaaaaaaa aaataaataa tataacttatt 60

aaaacaccaa aaaaaaaat ttttttttat taataattaa aaaaaaaaaa attcttcccc 120

ttttttataa aatccaaaca ttctttaccc attaat 156

<210> 55261

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-C5

<400> 55261

cggatttttna gcacctgtat aaagttctag ggctcgtgtt cttacaacac acacacaaaa 60

agagagagac gtgcggacat tgatgactga tgacattttt gcggtggatc aattgttccg 120

gaagaagcgg gcgaaaaatg gtggtcgagg gacaagcacg ttctgtcgt gccctgtgga 180

aattcctage cgctgctgca acccatcacc aatgtgtctc cgttgtccct tttctctact 240

atactactac ttctgcattc cttc

264

<210> 55262
<211> 247
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-C7

<400> 55262

gaaaaaaaaa aaaaaaataa atttaaaaaa tttatTTTTt ctTctctct aaaaaatcca 60
aggTtacttt ctCattcaag gaaccaagct tcccttctct tncntcccc aaattcaatt 120
tactatcctt ccacctacat ccaattcact ggcaaaaccc tacaacttct caacttaata 180
aaacccaac acatcccaact ttatcacctt tcataatct caacattccc ccacctatca 240
tccttcc 247

<210> 55263
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-D2

<400> 55263

ggaataccgg gcccgaccca ctcgacctct tactctnttt ctTactcgtg gtctttctct 60
tgggaaaaaa aaaaaaacia aaaagaagtt ttttttaaaa aagaaagaag agcccacaaa 120
caccctcaa catttccttc cccctaaat cccccccct tacttcccc ttctttctac 180
cttctacctc ttctTTTTTT tcccctaaat ttaaaacacc tcccttcttt ttacaccttc 240
tcaactctta aaaaccctcc cctttccac tcttaattcc cttacacctc atcccccttt 300
ccccattttc ctttttttcc tatatacccc tccttaatt ccttttcta cattttctct 360
ccctttttcc tatctcctac ccccccttt tcccc 397

<210> 55264
<211> 296
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-D5

<400> 55264

tcaatcttaa accacatcat tacattctta aagtttttga angacaagct gcccaattca 60
 tcatctttat tcacatctat ggatatccca ccaccccggt tccctctctg tatcttgggt 120
 tatgttttca ttggaatcta ccacaccgtc ttctactatt tcaaacttag gtttatcttc 180
 tcagtattct cctaattatt ttgtttggca tcaacccttt caaattcaaa ctcttaattt 240
 ttgtttttat tctaccctcc atttttgtat ttattctact acatttttaa ttattc 296

<210> 55265
 <211> 338
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-D6

<400> 55265

tccgaaaaaa aaaaaaaaaa aaaaataaac aattttttta tttctaaaaa caaaaattan 60
 cnnnaggaat gtttttttaa aaagggagcc ccgccccccc cccccccent acntcccctt 120
 tcatccaacc tcaatattct cttctatttc ccccccaaaa taaaattcac tccccttttt 180
 tttccaactt ccaaacctaa aaacccttcc cctccccccac cttattcccc tttcaacaca 240
 ttccccttcc cccctcttct ctttatecct aaaaccccc ccccttttcc cctttacatc 300
 attacccac tccttaaata cccattttta ctcccccc 338

<210> 55266
 <211> 352
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-D7

<400> 55266

ccccnccctt ctccctcccc tctttcttcc ttttcttca ctctctttct ttccctctcc 60
 cttctttttc ctccctcctt ctccccccct tctcatctc ttttcttttt ttttcccctt 120
 tctttttcct ctacccttcc tcttcttttc ctccccctt ttttttcctt ccttattatt 180

ccctcctctc tcttccccacc cccatatcttt cccccctttt ccttacttcc ctctctcccc 240
 ctctccctct tttttattct ttctccttcc ttccctccct ccttctctc ttttcattat 300
 tttctcctnc ttctcttccc ctccctcct tcttatttcc tctctttttc tt 352

<210> 55267
 <211> 270
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-D9
 <400> 55267

ttaattttccg gtcgaccgca cacaaactan tctacaaaac aagtaaataca acatatattt 60
 ttacatacac tacacaaaac atttatgttg gtttttctta aaaaagatca gaacaaaaaa 120
 aaattttcnt aaaaaaaaaa aaaaaataa tatttaaaat ataaaaaaaa aaaaaataaa 180
 aaaaaataa aaaatttttt ttttttttta atatcaaaaa aatatatatt accttatatt 240
 taatatatca tatctttttt ttttcttctt 270

<210> 55268
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-E1
 <400> 55268

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 tgaagcgcg ggtgagggcat catgatgggt ctgaaggccg ttgctttgta cataaaccca 120
 aataagtttg gtgctatggc gaagccctgc atgccataaa tgggtggcctt cctcaactgt 180
 ctggccttaa acaaacagaa cgatgacaag tgtatcaagc agaaagatct tttggttgca 240
 tgctctcatg ctccagaatgg gagggccaaag aacgcaccca ataccatcaa ttaccatctc 300
 cagcgacttg tgcgaggcaa gttcctctag tcgctgtgtg agatcatttc ctcatccagc 360
 tttatgcctt gtaccgaagt aaaattgctg aaatggggca ttaatgtgtt tgcttagatt 420
 ggaca 425

<210> 55269
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-B7

 <400> 55269

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 tgggttttcta atgcaggcgg ggcagacttt ntaatntnca atcataactg cttctccnca 120
 aggactcaca gactttcacc ttctaaaagg gatgggcctt cccactcctt gtgtacttca 180
 atggtaataa ttgtgtcatg ccatctcctg aaaattatcc atggctgccg aatgcaaacc 240
 ctctaacaaa acaaccattg acactccac tctttatatt cttggttgcc tttgctgctc 300
 tgttggctta tgcattatta atgtgatcaa aatgttttagc aagcttcaag tttatgtccg 360
 attccataaa gtgcactgca acaggatatt tatt 394

<210> 55270
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-033-Q1-K1-F9

 <400> 55270

ggggggnggg gggggggggg ggggggnngg gggggggggg gggggnggng gggggggggg 60
 gggggggggg gggggggggg gggggggggg ggggggtggg gggggggggg gggggggggg 120
 gggggggggg ggggtgtggg ggggtgggtg gggggggggg ggggggggtg gtgtgggggg 180
 tggggggggg gggggggggg gtgggggggg gggggggggg ggggtgggtg ggtgggtggg 240
 gggggggggg ggggggtggg ggggggggtg gggggggggg gtgggggggg tggggggggg 300
 ggggtgggtgg ggtgggggtg gggggggggg tggggggggg tgggggtgg ggggtggggg 360
 ggggggtgg ggggggtggt ggggggggtg gggggggggg gggggggggg tgggggggtg 420
 ggggggg 427

<210> 55271
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-033-Q1-K1-H8

 <400> 55271

 cacgcgttcg aaaagaaagg aatgctgcgt atgaatcatt tacctattct tccgaattat 60
 atgtatccgc gagattaatt tgtggtttcg atgtgcaaaa tgaaaccatt tctattggaa 120
 acattcctat tatgaattcc ttaggaacct ttataataaa tggaatatac cgaattgtga 180
 tcaatcaaat attgcttagt tctggtatct actaccgttc ggaattagac cataagggaa 240
 tttctatata taccgggact ataatatcag attggggagg aatgtttga 289

<210> 55272
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-034-Q1-K1-A12

 <400> 55272

 gttcggtttg tttcaaagat cttttttcca aacatctatt cggatggaaa catctgtttg 60
 ggcacacctac aaaaccagcg gagccctata tatgatgttt ctgcaatatt gacctctatt 120
 caatccctgc tgtgtgaccc aaacccaaat tctcctgcta actctgaagc agccacaatg 180
 ttcagcgaga acaagcgtgt gtacaaccgc aaagtctgtg aggttgtgga gcagagctgg 240
 acatccgact aaaactttat tcgcttcgcc aggcggtgta aataaagcat ctgtctttcc 300
 tacttgcccg gtctgttt 318

<210> 55273
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-A6

 <400> 55273

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aantnntttt tgcaccaag ttggaaactg caccagtaac caatgttgat gttgatgtca 120
atgcatcaga gcttttttaa gaaaacggaa atagcgcttt caaaagaaga cagtggatca 180
aggcaattga gttttactca aaggccatca gtttgagtga cacaaatgca acatattact 240
gcaacagatc a 251

<210> 55274
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-B4

<400> 55274

gcaaaacata tactaataat actagtaggt ctttttttgg agtcactcta tccttcatga 60
ggtgagtcac cataagtgcata tatctatgaa ttttggttna atcaatcact cctcatttaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attttaaaaa 180
aaaaaaaaa aaaaaaaaaa attttttataa aaaaataaaa taataacatc tatataaata 240
taattttaat atattaaata aattataaat tttattcccc ccttttatat aataaaa 297

<210> 55275
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-B5

<400> 55275

tccgaggttt cccaaaagtt aatgttcctg tatttgctgc atcggtatgag gaacctgaan 60
ttggggtagg taataaggaa tgtcggcggt tggccacatc cgggtgtgct ttttttttcc 120
cattaaccaa ggtgggtcgg cactacatcg ttgatgccac ctcagagaaa gaatcccaga 180
tgagttctgc agtgctgggtg tcagtcaaca ggcattggcca gatatgcggg cttacaaaaa 240
ggggaggggc atggcttgat ccaaactgca tcttcgacat gatattctgc gccaaagcatg 300
tgagccagca attcatctcc ctcttgatt c 331

<210> 55276

<211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-034-Q1-K1-B6

 <400> 55276

 ttaaaaaaaaa aaaaaaaata aaaataaaat ttttttttaa aaagaggaac caaaaaaaca 60
 aggttttttt tataaaaagg ggggcgggcg ccccttcac ttttccctt ctttttttcc 120
 ctccccccct acttgtagc tctttttttt taatcccaaa ctaaaatcca ctttccctca 180
 tcttttcac cactttaaat ctcttaaccc acccttttcc caccttaatt tcttaacaac 240
 acatccccct ttcccccttt tt 262

<210> 55277
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-033-Q1-K1-E2

 <400> 55277

 cccgtctaaa aaaggacaag gcagtggaag gtttacgtca ggacgtaact atgggtcatt 60
 ggaaggggag gcacctccac caggctatgt ctgtcgctct tgcggtgttc caggccattt 120
 cattcaacac tgctcacagg aaaacaagat acctccacct ggatacattt gctacagatg 180
 ccgaattcca gggcatttta tccatcgttg cccaagcatt ggtgatccca agtgcgacaa 240
 caataaaatg ctttgttctc ttgtcccagt agttacacct gtcaatggca ttttggattc 300
 acttgccccg gcttcccccg ttagtgctgt tgatgacttg ccagcaaagc ttcactgcaa 360
 gctatgtaaa aaagtgatga gagacgcagt attgacaagc aagtgctgtt ttgatagttt 420
 tgtgatagat gtaagtgggt ttcatttttt cata 454

<210> 55278
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-033-Q1-K1-E6

 <400> 55278

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 cccacacgtg atgtccgcta ctgctcatct cagatgatac tacagtggcn gcacccctgtg 120
 cccatcgctt cccaaggtgc ttccgtttgc cttcgcgacc cttcgccgtc gccaaatgcc 180
 atagctcaaa ggagatcagt gttccttctt tctacaaaca tcatcgtact cgtcgtcgca 240
 atcgcaatat gacaaatgaa agagcttcca agaaaagttt gctgagaaaa gat 293

<210> 55279
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F10

<400> 55279
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 ggctggacgt tagattggag ttgacggcta cttcttcatg gcctggggca acgccactgt 120
 tcctgctatg gatattacca actgggttga caccaactac cactttattg tccctgaatt 180
 gggcccaaac accaagttct cctatgctct tcacacggtc tgtaacgaat acaatgaggc 240
 taaggcgcta agtcttgata ccttgccagc tcttgttgga ccagtctttt acct 294

<210> 55280
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-D3

<400> 55280
 cacgacatgc tgaagaaata cataacctat gctaagctga atgtgtctcc caaaatacat 60
 gatgccgatc tagacacgat tagccatgtt tatgctgaac tccgccgtga atcctctgat 120
 ggccaagggg ttctatttgc agtgaggcat atggagtcaa tcattcggat gtcggaggca 180
 catgcaagga tgcatttgaa gagctacgtg tctcatgaag atgttgacat ggacatgcat 240
 gtctcgctcg actactgtat ttcgactcaa aagttcgggtg tgcacaaagc acttcaaaag 300
 aatttcccga agtacatgac attcaagaat gactacaacg agctgaccc tctgcttctg 360
 cgcacactgg tcaacgacac catgcacttg g 391

<210> 55281
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F6

<400> 55281

actcgttcta aaccatctca taggcacca ttccgctttg taaatctcaa ggacattttg 60
gatgtgagca tgatttacat gtctctctga gtccagcaca ccatgaactt tcaaaacatc 120
cgggagaaga acatcatgag gtctgagctc tgtatggagt ttaagaaaat attctaggag 180
atgtccatct tgttccatct tctaccccag taagttgaac tcacctatgt tcggctctaa 240
cccactgccc atgggctctt atcatacaag attgacgata gtttaatat tttaagtctc 300
atattgact 309

<210> 55282
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F7

<400> 55282

ctcatctcgg gtttcaaaaa aagattaaaa aaaaaaaaaa aaaaaaagaa aaaaagaaaa 60
aataaaaaag ggataaggg 79

<210> 55283
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B4

<400> 55283

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aagggtaggc tgtgcaaagt ggaatgtttg gccatggatg atggacagtc gctaactcgc 120
tatgctcagc caagctgctg ctgctgaagg ctgaagctga actcggcgat gtttctcagc 180
gacactagaa gataggttgt tggtcattta ggactaactg tactgtacgg tagcactgta 240

atgcaaggga cttagtggat gggagcgtgc caatTTTtggc cgttgccagt actgtaaatt 300
 agtcctctta ttttatttta ttttagtctc taaattgata aattcagaaa ctaaaatatg 360
 tcgcatttag c 371

<210> 55284
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B6

<400> 55284

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 ggcgggggat tgtggcctgg gttgacgata gagagtcact tgcaccgggg gagcggagat 120
 gaagccggtt gtggggatcg tgggtgtacaa caagatgcat aagttggtgg tggttgcact 180
 tgaccgtctt tttcaacaag gtatacaacc ggtacatgaa gcgcaccttg aagttcatgg 240
 ctcacgacga tgacaacacc tgcaacattg gcaaccggtt tacgctggat ctttctagga 300
 ccttgtgcag acacaagcac ttggtttagtg ctgaaattct gccagagct aacgtgtacg 360
 tttc 364

<210> 55285
 <211> 228
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C12

<400> 55285

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 gcgcgcgcta tgctgaggct gctaattctag caccgctcta gacgtttccc ttttctctgg 120
 tggattacgg actggatcgg accaaagatc gatccagcta ctagttctaa taatatagtc 180
 tgtacttgag aaaatgaata attgtaattt attgtcttct tgggacca 228

<210> 55286
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C2

<400> 55286

aaaaaaaaa aatacacaca aatataggat ttaaaaaatt ccaaacaatca aaacaaacaa 60

gggccaaaac gcaaaggg 78

<210> 55287

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C4

<400> 55287

gcctaaggaa taacgtcatg atttttggag accacaaggg ccataaattt tggcaggtaa 60

ttttaccccg ggctattaag ggggggtcat actcaaggga aagaacaacg aaacattaac 120

aatgaacacg acagtgaac gtgcatgggc atagcagtaa ccaactttgg cgctcttttg 180

gatttta 187

<210> 55288

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C5

<400> 55288

ttatttatTT ttattaatgt tttaatgttt tgatattatt cctatttatg gagttttggg 60

tttttttcta ggggctaagg aataacttat ttattattta ataacttaaa ttatctaaaa 120

taataagtaa taaatatata ctattact 148

<210> 55289

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C7

<400> 55289

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tagtgtagat attgtgctac tgtacgtagt gtctcccttg ctctattaag ctttctgatc 120
atgagacatc cagtttatct ataaacaaaa ttgttatgaa catgctcgat ttctactatg 180
atgtaatttg ccatctttct tggcacaacg agcatcatat aatatccagt gttcctgt 238

<210> 55290
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C9

<400> 55290

attcccgctc gcacgcactc atcccgcat tagctaaaaa atactattat agctt 55

<210> 55291
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-D2

<400> 55291

gtcgaccac tcgtgcgaaa tgttacaaag atacagtatt ggtaacattt atgttgctc 60
ttgttggtag attagggagt cagttccatt ttttttggca tgagcttatt tgaacaadct 120
cgttatcacc ccgtgcaaac aaaaaagaat ctagttaaac gccaatTTTg cctactagtt 180
aatggtcgga aataccagtg tagaatcaga aatcggttac acactacaga ataatgtatc 240
tgatctactc tgggtaagca ttaatcttta acaag 275

<210> 55292
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G5

<400> 55292

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ccccgtcgtc gaagcccgtc aagtctctgc tgtggcaagc agaagaagaa gaagtggatc 120
aagggaaaagc taatggagaa ggtgaacaac tcggtgcttt tcgaccaggc ttctactac 180

aagctgctct ttgaggtgcc caagtacaag cagatcaccc ttctccattc tattctagcg 240
 tcctatgata aatggctctc tggctcgtag ggctatcaag gaccttatgg ctcggtttct 300
 tatcctgttg gtc 313

<210> 55293
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G6

<400> 55293

gctggattgc ttattggatg gactcttggtg tggctactgc cctatctgga gggtccatcg 60
 acttccatga ccgtaaagggt gacaggataa atgccttctg tgcacactag attgaatggc 120
 aatacattgc atggcaatag gtaagttcca agtgtgtgct tcatggatag tgagatgggg 180
 catccttttt ggtattcttc catgatactc tgttgatttg gtgatgatag cttgatgcct 240
 tatgttggtt catgcatata taggaaggat ctggtgtact ta 282

<210> 55294
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H1

<400> 55294

cccacgcgtt cgaaacactt tgccccctac ctgcagttag atccagccgc ttcacatag 60
 aagattgggc caatttgctt gcatccctgc tgtatctgga cccccaataa tttgacacga 120
 cgcaatgtag ccatgatgtg tgctatacaa tttgatagtg tgtggcctgt ttgagtcaat 180
 tatatatgcc agcattggat cctcgccctc tacttagtca cattagtata caataagtgg 240
 tggaaacagt ttactgtaat gaccgctaca gatgcaccgt ctcatgattg gtcctgtggc 300
 tctagtttca gccaatctgg aacatggtgg ccagtgtatc ttgtctgcca atgactgaat 360
 gctttatgt 369

<210> 55295
 <211> 435

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-032-Q1-K1-H10
 <400> 55295

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 catctgggga ggtatctcat ccttgggttn cccgtgaatg ggtncagcg atagtggacc 120
 gatnngtgcc atcgtagatc ttcatctggc ttccatcaac ttactatctg cactnatatt 180
 gcagttggaa tgctcatcan gtgtctatct taatctggct tccttttttt ccatcagctc 240
 agcagattnn agaataagatc ccttctancc tttttcaagc tgaaaggggc agtanttgaa 300
 atatagaaaa gtaggttatg ctgaagtgat caactgttgg catantgtcc tcactnntta 360
 atggggcaat atcttctttg taaccgggtt tgccaaccct tattatgcct tatatggaat 420
 accattgatg ggttt 435

<210> 55296
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-H11
 <400> 55296

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 tcctcggagc ggaggcgatg gctgggaagg gagggaaagg cttgctcgcc gcgaagacta 120
 cggcggccaa gtccgccgag aaggacaagg ggaagaaggc cccaatctca cgctcctccc 180
 gcgccggcct ccagttccct gttgggcgta tccaccgtca gctgaagcaa aggactcagg 240
 caaatggctg cgttgggtgcc accgcagccg tctactccgc tgccatcctg gactacttga 300
 ctgccgaggt tctggagctg gctgggaatg ctagcaagga tct 343

<210> 55297
 <211> 280
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-032-Q1-K1-H12

<400> 55297

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tcaacaatgt ttgtggaaca agggatgggtg cttgacccat ccttgggctc tttcaagatc 120

cctccagctt cactatctac tttcgacacc ctaagtgtca tcatatgtgt cccgatgtat 180

gattacatcg tggttccaat agccaggaga ttcactggca acgagagggg ctctacagag 240

ttgcagaaga tgggtattgg ccttgtaatt tccatcataa 280

<210> 55298

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H2

<400> 55298

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atcacatgta ttgttgatat gccagatggg aggcttcatt gatgtcttta ccttatcttt 120

tacagggttaa attttggaa cgcaggaggt tgaactcatg acctttggac agcctcagat 180

aggcaatcct gcatttgctg gttactttgg ttaaccaagt cccaaaaaca attccgtgtg 240

accattataa aatgatattg tgcccgaatt accaccgtat tattattacc taagtgaatg 300

gacaatccac cactt 315

<210> 55299

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H3

<400> 55299

ggagggctga tgtccatgct tggagttgga ggcaacctgg gaagcaatcc tgatgggttcg 60

aaagcctgaa ataccaagga tgagacgtag aagcacataa tttaggttat tttgcatgcc 120

tctgttatga ttcttgcaat ggaacatata catgaatctt caaatggcca ttgtgtaact 180

atagtgtttg ccaattggcc attgtagtat ttgctatgta caagagtggg tttggcatct 240

agtcaatgtt gtgcatagag ctgagaactg catagttact tgggttcaga aattatgcgg 300

aagcttgtaa gttgtttcaa aaaaaaaaaa acacatgcat gcaacgaaat agataattta 360
tagtgtaact ct 372

<210> 55300
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H4

<400> 55300

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gctacgacca gctccagatc ctcttcttcg gaaagaagta cggctccggc ggtgcttaaa 180
tgagagaaaa tgatgacgaa caagagcagt tcgctcccg tccagcccag tcaggatctg 240
gtcaagtttt tgcctttcat atcgaagaaa ttaataattt atgtaggaga atttttccaa 300
cattcgtttt gggcggagac attgatctca aaacactcgt aactgtccta ctaggtgggtg 360
gcatgggtcc caaaacatg gtcatagggt gtgtctagtc ttgccttcgt tgcagccggg 420
caattttcct tacatatatg ctttgc 446

<210> 55301
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H6

<400> 55301

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tattgttgat atgccagatg gttgggttca ttgatgtctt taccttttct ttacaggtt 120
aaatttgat cgcaggagggt tgaactcatg acctttggac agcctcgat aggcaatcct 180
gcatttgctg tatactttgg tgaacaagtc ccaagaacaa tccgtgtgac ccatcagaat 240
gatattgtgc cgcatttacc accgtattat tattacct 278

<210> 55302
<211> 270
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H7

<400> 55302

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 ctgtcatcag tgcccgatca gaagatgtag agatgtgctg gggtctgtag tttgggttac 180
 tgtcgaatca tcgagtagtt gggtgttcac tgctgtaact tattatcatg atgcatatga 240
 aatggcaatg aactatgtta tcagttctcg 270

<210> 55303

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H8

<400> 55303

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 cacaacggca tgcagctgga agcggccagg tccttctctg gacctaacca agttcaattc 120
 cagcaccacc caccgtcgctc gtcgtttcaa cagcagcagc aaaacagttt ccatggcttt 180
 ggtgtcaacc cgcagtacca gcagcatgtc ctcaaccagc ttctgcagga agttaagaac 240
 agtaacaacc gtcgaaagc gcagcaaccg tctctggatg caccaccgtc gaatgcgaac 300
 tgcgggggctc tcgcgccagg agttgctacc cccaacgtca ttgctgctac tggggagcag 360
 gggcagcatg tcaataacag tagctctaac cataacggca cggtaaaggg tgctgctggg 420
 actggcccta gcaatgtcat caacaatagc 450

<210> 55304

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-H9

<400> 55304

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gacgaagagg ccatcttcga gatgccgcag ctctgcgga acatggcggc ggggatgatg 120
atgagcccg cgaggctcag ccccgacacc ttcgacgagt cgcccgaccc gtccgaggcc 180
ggggagagcc tctggagcta ccatgacccg cagattgttg cacacctagc tagcttggcc 240
atggcaccag cagtgtgggtt atatctcata ccatcatagt gtactactag ttcacaccac 300
ctgctggtta gcatacccag agaagttgat tatt 334

<210> 55305
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G3

<400> 55305

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ggacaaacgt aataaaaaaaaa aaaaaactta cgtactccta catgcaccaa gtcttactat 120
cctatacatt cacctaaata aaatttcatt agggcgtcac ttttaattca atttatattg 180
ccaaaacctt atacattact taacttaaata atctttgagg tcatccaact ttatccattt 240

<210> 55306
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-E4

<400> 55306

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gctcatgtga tatcatactc tctgctaca acgcgtggga gagactactc tggctctccc 120
acgagacacg aagcctatcg gtcattctct gccaatcgac tgccacagga acatgaagag 180
catataaagc ggaggctcta ctctcctgcc aggagatatg atgctgacaa tggctatgag 240
aagaggctc ccacaacaga cagggaccga tctactatgc accgcatgta ccccataaga 300
tactgacgt tacctcctgg atcccgtcc aggtccgccg acgattcttc tgttgccagg 360
gactgatcga ccgatggatg ggtacaatat gaatggtatg cgcatgacca gcatggatcat 420
gcggtcaata ggcctatgtc tttgtca 447

<210> 55307
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-E5

<400> 55307

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tcattgctca taccagatt aggaagatga agggtttgaa acagaagaag gtcacactga 120
tggagattca ggtcaatggg ggtaccattg ctgacaaggt ggactacggc tacaaatttt 180
ttgagaaaaga ggtccctggt gatgctgtct tccagaagga tgagatgatt gacatcattg 240
gtgtgaccaa aggtaaaggt tatgagggcg tggtcactcg ttgggggtgc acccgcttc 300
cccgcaaaac ccacaggggt ctccgcaagg ttgcttgat cggtgcatgg catcctgcta 360
gggtctccta tacagttgcc cgtgctgggc agaacgggta ccaccaccgt accgagatga 420
acaagaaagt ttacaagatc ggca 444

<210> 55308
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-E6

<400> 55308

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tcttcacggt tttgcttgca atgattgaga tagatgtgct cattcgctt gcagaaaatg 120
aaaaataaag atatctttgt gccagattc agagatgggt tgactaccta atcatatatg 180
catggtacaa cagccataaa actgaatttt atttggttag aacctgaaat ggcggaaact 240
ctcaggaatc atggtgcaac cgtgcatgga tcacttgtct aaactagtta catcattttg 300
attaagaata aggattacct gatgggtgtc tcctattttc tgttgtagtg caaacctgtc 360
aaagctgact gttggatggg gttggcgaag gtgtgcttga ataaggatca cctgaaggcg 420
tggagtcctt ggtgctgg 439

<210> 55309

<211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-E7

 <400> 55309

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 ctgcgggtgc gtgagtccta catcaccact ctgaacgtgt gccaggccta caccctgaag 180
 cggatacgcg acccgagctt ccagggtgagc ccgcagccgc ccctgtccaa ggagttcacc 240
 gacgagagtc agccggcgga gctgggtgcag ctgaaccagc agagcgagta cgctccaggc 300
 ctggaggaca cctcctcct gaccatgaag ggcacgccc cgggcatgca gaacaccggc 360
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 taggcctgtg agcagttagt 440

<210> 55310
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-F1

 <400> 55310

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 tagaaaactt gttcaaacaa ctagttgctg aaaatgcaca aaaacatata agaagcgctg 180
 atacctgtaa ggttatgttc atagaagaaa gggtttctgc aagaacatga agtgtcccta 240
 caaaatcaat gttagatgtg gacgatgggg ccatttgca agctttgaac aatttgcaaa 300
 gtcacatcaat gagagtggga agatttggtta gatagaatag tgtgaggcat tagggaag 358

<210> 55311
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-F12

<400> 55311

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ggcgaaccca actctccaca aggttcatcc gcttacctgc atagtaaggt caatggcaag 180

gagacatcta atggcaatct ttctcctaag aactcgccga gaaagacatc ttgcacagcc 240

gaggagaaac cagaatgcaa tgggagctta aatgggtggtg gcggctctgc ggatgagaag 300

tcaactgtag gtatggagca acagaatggt gttcagaaga atgttgggag tagcaagggc 360

cagccacatg gacatgcaac tgaatagagt gggacttata ggacatagac aacagaaaaac 420

tgaagaga 428

<210> 55312

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F2

<400> 55312

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aatgcttcaa tgtgtttcat ttccaaaga cctgagcttc gcttgtgatt tgttccgagc 120

tgtacggtgt cgattttgtg tatataatat aatataacga aataaagggt acccagtatg 180

agtatgatca ttccg 195

<210> 55313

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-032-Q1-K1-F3

<400> 55313

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tcaaaaataaa tgagttgtta gttgtagaat attattctcg ccagacttga acttaacgaa 120

aaaaggaaag gttcatagaa tttttttccc cttccccttt ccccgaaacta aatcgaccta 180

aggctcttaa ttogtatttt cccgttcacc tagcagaaat agattaaccc taggataactn 240

ttttcttttt tggtatttcc tccatgtgta ttttacatac cacagtaatt tgctatagag 300
aatntctatt aattaaaggt attattgttg gaataaattg ttattttaatt tgatacattg 360
tgatcgctaa cattgatgaa ttaagagaaa cggaaagaga gg 402

<210> 55314
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F4

<400> 55314

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gccggggcca acaccaacgg ctcccagttc ttcattctga ccgtcgcgac cccttggttc 180
gacggcaagc acgtcgtctt cggccaggtc gtcgagggca tggacgtcgt caaggccatc 240
gagaaggtgg gcacccgcaa cggctccacc tccaaggtgg tcaaagtcgc tgactgcgga 300
cagctctcct agatctctct gatctggtct gttcggcccg ccttccttcg tcactgctga 360
ctccccctgc gttcgttctt ttggatctga ataagatggt ggtgatctga gtggtggtct 420
tagtttatca tgtattgctc ggagggttaat tt 452

<210> 55315
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F5

<400> 55315

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tgtctgattt attgacactt gcggtctgta aggtgattaa atgtgtctta taaagttcga 180
ttttaggggc tttgccccctg tatgttcttg atatggtaac ttaagttgct tcattagaag 240
gcgcctgttc ccggttgat atgtagtaga aatatgacag taaaacaact tgaagagtcg 300
attaaccg 308

<210> 55316
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F6

<400> 55316

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ggcatgctat tagtctttga tatccgtcaa acttctgcac ctttgcattc tagcatgggt 120
ctatcaacac acccagttca tacaatacac tgcgctgtag atggcagtgg ttccaggaag 180
gttttttctg cttcttctat aggaccctgc gtttgggatg ccagcgaaaa caggccgagt 240
ttggtaagtg ggatggaaaa ccaaggggtc tgcatacttc ttgcgtgcag ctctccatca 300
agtgatgtcc tgggtggcttc atatcgcccg agagttgagc tgccagacgc tatcggcaca 360
tctcaagcgt ctacaccaca atcaccggca cccaccggtt caggaaaact aggatgccac 420
acac 424

<210> 55317
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F7

<400> 55317

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ggtattgaat gcctaggtga gtttttttta gctgtgcaca aaaaaacagt taaactcgat 120
ggtatctcaa ctgctggaga aatgctagtg ccctatTTTT ggctgtggaa ttggaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaatat aaaaaataaa 240
aaataaaatt aacataaatt aaatatttat atactataat atttatttta tatataaatt 300
aaaaaaaaat ggggggtcct tttaaaggaa tc 332

<210> 55318
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G12

<400> 55318

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gccgcaggag gtgcaagtcc cgcgtcggga ttcagcacag ggtgaccaag gaggactcca 120
tgaagtgggt ccaggtcaag tacgaaggcg tcatcctcaa caaggctcag gccaacacgt 180
tgtaaacctc acccgtgggc aaaacagctc tctggtctcg tatcctcctc cgtgtcaacg 240
caagaccacc caccttgcca ggggtttttt tgggtttaatt tgtgttctca gccctgatgt 300
ttagtctggt agcactctgg tgggtgcttg tgcgcaagat caccacccat gtggattatt 360
tcccggccct tgttgactc tgtgtgctgg tgcttgaaaa catgcttggt tgaatctcct 420

<210> 55319

<211> 440

<212> DNA

<213> Zea mays

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<400> 55319

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cgcaagtgtc atcgaaaaca accgccgaag agctgcttga gaaagaattg cctctgaagt 120
ttgtagaggt cgatgaggaa caaggcaggc ttgtcctcag taatcgcaag gcaatggcag 180
atagtcaggc ccagctaggt attggatcag ttgtcttggg aactgttgag agcctaaaac 240
cttatggtgc cttcattgac atcggcggaa tcaacggcct tctccatgtg agccagatta 300
gtcatgaccg tgttgagat atctcaacag ttctgcaacc aggagatacc ctcaaggtta 360
tgatactgag ccatgaccgt gaaagaggcc gagtcagcct ttctactaag aagcttgagc 420
caacacctgg tgacatgatc 440

<210> 55320

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C7

<400> 55320

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gcgcgctgcg gcgggacaac gtgccct 387

<210> 55323
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-D1

<400> 55323

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cattctgctc gctgtcacta tcatatacca gtactttgag acattcgaga aggaaagggc 120
aaccgagctt gggtttctttg gtttctaate ttcgtcgctg gggatatagac tgaatcttcc 180
tgcaagtgc agtaaagtct tggccggctg tttatgtttg taattggaga gcttatagtc 240
agtttaggtt gcgggctaata ttacactggg aaattttag caggttctgc atgcgttttt 300
ggggccagta tgggcattaa gttgtgctca attataacca ctgtcatcat ctcttgggat 360
tttccgttct cctgtattga ctatagaatt ttggatcaat tttgccgtcc tgaactg 417

<210> 55324
<211> 313
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-032-Q1-K1-D10

<400> 55324

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ggaagatggt atccgtgcac gtaatcagct gaagtectca atccaactcc accttgatgg 120
ttcaactgct gttgtcgagg acattggccg ccagctgctg acctatggac gaagaattcc 180
taccacagag cttnttgcaa gaatagatgc tgttgatgca agcactgtga agcgtgttgc 240
aaaccgcttc atctttgate aggatgttgc tattgctgcg atgggaccga tccaaggact 300
ttcagactac aac 313

<210> 55325
<211> 377

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-D3

 <400> 55325

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 ttgttgatga taacaattat ggaatgataa caccagatta gcgagaccac tacttgtacc 120
 atggcatggg tatgagatta ctatgatatg ataccattta tcatagacta tgatatcact 180
 acaacgctat tgatgcttaa atggaagggtc ttgatggatg ctatgcatga gctcatgaaa 240
 tagctttgac gctttatcga taaaaacgct agctgaacat ggtattcttt gaggacgata 300
 gtgcttgcta caatattcaa tcgactgctg tatgctacga actggttgag ctaaacgcac 360
 atcgaagctt actctat 377

<210> 55326
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-D4

 <400> 55326

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 tacaagggtc ctcgaggatt ctcgtgtgac catgaattct aaatgtacat aaaagtctgg 120
 cggaacttat agcatcctgt aatctctgtg agccgcgggtc tgtcagtatt ggggtgggctt 180
 gctgtggtaa ctggtggaca tgtcgagttc atccatttgg gtaggccttg gtgaacacgg 240
 acgccccaca tcatgtctca gtttgagtag tttgtgtgaa ctgaagggtta cgtgcttctt 300
 ccatgtgggt gcaacgttaa cttgagtcaa gtgctaacaa gagttgataa aattttgccc 360
 cacttcgtgt ttgtgacagt ctttttaaagt ctcttttctg agt 403

<210> 55327
 <211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-D5

 <400> 55327

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agttaaaatg aatatggata aataaacatc atgttt 96

<210> 55328
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-D7

<400> 55328

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gtcgtctacg cgctcaagcg ccagggccgc acgctctacg gcttcggcgg ctagggccgc 120
tcccccttctg atgctttgat gtgacggccg tggtcggttg tgtgtctagt tggccggtct 180
actgtagttt gttctgtatc ttcgtttcga ggtgttcag tttctagccc atttgggtga 240
atattttcac tgctattatc aatggaaagc ctcggttct atccccattg ttctggatca 300
aaaaaaaaa aaaaaaaaaa acaaaaaaaaa aaaaaaaat aaaatattaa attaaataaa 360
ataataatat tt 372

<210> 55329
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-D8

<400> 55329

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gcatgcggac ttgtacacga tgctgaacaa gcagagctcc agagggcaga atggcagaga 180
tggcaaatcc cacagccgcc ctacttaciaa ggatggcaaa catgcccac ccaatgagcc 240
atcagaatct ccttactttg gctcatccgt gcattacggg ggtcgggagt tctacagcag 300
cgttttacgg aagcaaccag ccaatgaacc ccatacggat tacaaggggg acaaccggga 360
tggctctgct accagaggtg attggtggca aggttcactt tattactgaa taatcttgct 420
gggacctctc ccttttgtga acaag 445

<210> 55330
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-032-Q1-K1-E1

<400> 55330

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aagggcggca aggggctggg caagggcggc gccaaagcgc accgcaaggt gctgcgcgac 120
aacatccagg gcatcacgaa gccggcgatc cgtaggctgg ccaggagggg cggcgtcaag 180
cgcatttctg ggctcatcta cgaggagacc cgcggcggtc tcaagatctt cctcgagaac 240
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gatgtcgtct acgcgctcaa gcgccagggc cgcacgctct acggcttcgg cggctaagcc 360
gnctnccctt ctgatgcttt gatgtgacgg ccgtggtcgg ttgtgtgtct agttggccgg 420
tctact 426

<210> 55331
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-032-Q1-K1-E11

<400> 55331

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aacctgaacc tgggtgggca cccggacctg gtggcgagag accccgtggt agccttcaag 120
acggccatct ggttctggat gacgccgcag tcgcccaagc cctcgtgcca cgccgtgatg 180
accggcgact ggaggccctt cgccaccgac cgcgcccgcg ggaggctccc cggatacggc 240
ctgaccacga acatcatcaa cgggtggtcta gagtgcggcg aggaccgctc caccgacggc 300
gccaaagccg ccaaggaccg ngtcggctac tacaagaggt actgcggtat gctcggagtg 360
gggtacgggg acaacatggc atgcggggagc caaaagcctt accggagatg atga 414

<210> 55332
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-E2

 <400> 55332

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 tgtcgcggtc catccgcgcc ggcgccatct ggatcaactg ctacttcgcg ttcgacccgg 180
 acgcgccgtt cggcgggtac aagatgagcg ggttcggcaa ggacatgggc atggacgcgc 240
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 gaccgaccga cctctcatcc tgtccgatga acagttcaac atcaciaaaca agaagaaaca 360
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 tggattgatg tcttgatgat gtagtgcaat gt 452

<210> 55333
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-C6

 <400> 55333

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 gactccaaag cgatttcagt tgtaatagaa ataacttatt gtgtgagatc ttagaaaactc 180
 atgctgatag tattcaaaat tgctggtctt atattgtgac aatgagagat tattagtcac 240
 taataaaaaa aataaacaat atattaaaat aaaaattaaa taataaaaatt tgatactatt 300
 tttaaatata gtattaaaat gtgaaatatt ttacacttaa t 341

<210> 55334
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3088-032-Q1-K1-A9

<400> 55334

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gacagcatat gcctcgtcaa gcgctgccac aagcccgacc gcaaggagtt caccaaggctc 120
gccgcgcgca ctgcgatcgg cttcatcgtc atgggattcg tcggcttctt tgtcaagctc 180
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tcaggagtgg acaatggcgt ctccgccttg gaggcgcagc tctggcatcc ggaaagcagt 300
ttgttttaggt gaaggacgag tcccgtggta gacctgtaac tctnttgtgc ctgatgccga 360
atagtcgtat gtgaaagaag aaaaaattaa aa 392

<210> 55335

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B1

<400> 55335

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aaaagacaaa gtttactctt ttctggatca tatgttttgt gctacttatt gctgttctgg 120
ccgcattggg ccagcatgca gttattcacg ggttcaacct gacaagcgct ggctgcagca 180
gcgagggtgt tgtaggtttc gcggtgattc gtctacccaa atctggaacc gtactgatac 240
tgaagaccgt actgatactg aaggcattat ccggcgtaaa ctgttaattc aaacattatt 300
acacg 305

<210> 55336

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B10

<400> 55336

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gtccagacaa gagccggcag caggagcagc cgccgccgcc gccttcttcg ttgaaccaga 120

cgggcggcgag gctcctgcgc gaggccaccg tctcccgccc ggacggcgag aagccggcgt 180
cctcggacat cctggccttc gcgcgctccg tcgaccgcgt ggactcgcct ctcgagtagc 240
tttttttttg cttgcccact ctcagtcagc tactgggtca ctgtgctttg ttcttttctt 300
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<210> 55337
<211> 415
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-032-Q1-K1-B11
<400> 55337

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tctattccgc cgtcctcctc gagtacctca ccgncgaggt cctcgagctg gccggcaacg 360
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<210> 55338
<211> 338
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-032-Q1-K1-B12
<400> 55338

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cgggtgggtgg tcaaagttct ctgggttacc tctttggaag cggtgagccc cccaaaccag 180
cagtggcacc agctgtaagt gctccacctg ctgctgcagg tgctccacct gctgagaaac 240
cacctgctgc aaagcctgat ggcaccagtc agattgctgc tgggggttacc agccaaacca 300
ataactacca cagggccgac ggtcagaaca ccgggaaa 338

<210> 55339
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B2

<400> 55339

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ttctccttgt cagccacaac caccatgaat acaagaacct ttgaaagac ctaatcattc 180
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atgaaccaga gatatttgtt gatcatgatg tatacctgcc acctgccccca agccatcatg 360
atgctcatgg ccagttttgc tctggaggta ttgtattggc ttctcgagat ggaaagattg 420
tgtttgagag tacacttgac gcaagac 447

<210> 55340
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-032-Q1-K1-B3

<400> 55340

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gcggcgccaa gcgccaccgc aaggtgctgc gcgacaacat ccagggcac acgaagccgg 120
cgatccgtaa gctggccagg agggggcgcg tcaagcgcat ttctgggctc atctacgagg 180
agaccgcg cggtgtcaag atcttctctc agaacgtcat ccgcgacgcc gtcacctaca 240
ccgagcacgc ccgtcgcaag accgtcaccg acatggatgt cgtctacgcg ctcaagcgcc 300
agggccgcac gctctacggc ttcnegggct aggccgtctn cccttctgat gctttgatgt 360
gaccgccgtg gtcggttgtg tgtctagctg gccggtctac tgtagtttgg tctgtatctt 420
cgtttcga 428

<210> 55341
 <211> 179
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-B6

 <400> 55341

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 acttatatat tgtatgtacc agctgctcaa aaaaaaatta ataaaaaaaa aaaataatac 120
 ttataaaaaa ttaataaaaa taattttaact aacaatttta aagagaaaat aaattaaag 179

<210> 55342
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-B9

 <400> 55342

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 tcgaggcatg gagctgggtct tttctgcaga ttttgagcct gatacccgtc ttcactgtgg 120
 ctgcaacacc attaccgggg cgtgcggtgg tggcttctgc cttttctttg tttcggcaat 180
 aatgctctta gtgagctact agcgatggca tgtgcatcta tggcaagtaa tgagcctgcg 240
 ataggatgaa gattaatctc atgacattag attaatccag aggtctgagg 290

<210> 55343
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-032-Q1-K1-C10

 <400> 55343

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 tgaaattact cctgaagaag atgacattgt cccgaaaact gtcggccccg tggcgacgag 180
 ccttaccagc aagaatccta gctcttttgc caagaagaac agcatgttat gtgtgaagag 240

gaagccaccg aagagaacgt tcaagagcaa ggctagagcg aaaaggggtg acaagaagcg 300
ggttgc 306

<210> 55344
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C11

<400> 55344

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gcgacagttg tattttcatt cagcacaagc ggcagctgag catgctcaat gatgtctaata 120
agcagacgac ttgtcctgac acctgagtc aatgtcatct tcatgcagcg aacgttttgc 180
tcatgagtta ggctatgagg tccttcagct gcgtaacatt atgttacttg gtctgggttg 240
atcacttatt attgcatgtg cacctctttt ttccctcctt cggaccttgc ctccctagtca 300
tcttcagatt ttaagctagg attatccctt atttacagtt gagttattat tagaatctat 360
tgtgcctgaa aggatcaatc tgaactatca atctgaacga gaggggtgaa ttagtttttt 420
ct 422

<210> 55345
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C12

<400> 55345

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ggacggccgc aacatcaccg tcaacgagc ccagtcgccg ggcggccgtg gagggggcgg 120
cggcggcggg tacggtggtg gccgtggagg cggcggtac ggcggtggcg ggcgccgtga 180
tggcggcggc ggctacggcg gtggcgggcg ctacggtggt ggcggcgggc gctacggtgg 240
tggtggcggc ggctacggcg gtggcaaccg tggcgggcg tacggcaact tcgacgggaa 300
ctggaggaac tgagcggg 318

<210> 55346

<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C2

<400> 55346

tgtttctggt gggattcaag ttcaaccctg ggattattgt gaaaaaaaaa aacactagag 60

<210> 55347
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C3

<400> 55347

cccacgcgtc cgaccggtag cccaaactct ggattatagt gacgccagtc ctggatttgg 60
tctcgagatt cattgaagtt aaaaagccct catgtatatg gctcactatt tatatacatg 120
taatattgga ttcccgtggt cagtgtcctt ttgtatcaat ttggctgcat agtgtcttgt 180
ggcacttcaa aggacataga ttgttgacgg gcaaccaaac ctcaagaaag tatcttgtat 240
tgtttcttgt ctcgtgtggt ttgttcact 269

<210> 55348
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C4

<400> 55348

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acgagggcgt cccgccgccg tacgacaaga ccaagcgtat ggtcatccct gacgtcttta 120
aggttctgag gctacagcct ggacacaagt actgcctcct cggcgagctc tctaaggagg 180
tcgggtggaa ctaccatgac accatcaggg aacttgagga gaagaggaag gagaaggcca 240
aggttgcccta cgagaggaag aagcaattgg ccaagctgcg tgtcaaggcc gagaaggcag 300
ccgaggagaa gttgggggtct cagttggaga ttcttgcccc tatcaagtac tgaggagctg 360
tgctttgtca tcagttttgg ggaacatcta gtctttgttt taagtgttcg gtaacagttt 420

gtgacagtat aatctggtaa accgtgttat ttt

453

<210> 55349

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A8

<400> 55349

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cgaccttgag aggtcacga agatcaggaa ccaccgtgga ctgcgtcact actggggcct 180

acgtgtccgt ggccagcaca ccaagactac tggtaggcct ggaaagaccg atgggtgtctt 240

caagaagcga tgagctctat atcacctga gaaatcttgg ccgcactacc gtgttggaac 300

gtgtgcaaac aggttctgat gaaaggtttc tgtctaggca gtttaatgaa atgggtgtttt 360

gatgtaggac aatctttcgg atat 384

<210> 55350

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-C5

<400> 55350

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atgagggtctt agatgcaact gaaccactc caaggggttt gctcaggaac attgacttga 120

atttagatcc aactgatgaa gaagatgaga ttacagtgcc accccaagcc cagtcgatcc 180

agcgattagt tccgttgcag cactgcggg accatctgtt gcactttctg ggtgcttggg 240

aactgcctga catgaacaat atggagatgg gccctgtcca gtttgctttg taaaaaaaaa 300

tacagattgg agagaatggg tattatgaca atcaagacta gctctgccct tatagctttc 360

aaagtggata agtaggatag catgacaagt gtaggttcat ctttaactctt tagagattct 420

catgtatcat gtgtat 436

<210> 55351

<211> 184
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-H1

 <400> 55351

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 ctgatgtgtt cttggcgtat gaacaactta gatcgttgac gattttccgg caagctgggtg 120
 catgattttt gctcgatcat gttcttactc aatgctgagt gcaactcaga tacgctgcgt 180
 cttt 184

<210> 55352
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-H10

 <400> 55352

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 gaattctaca tgctggccat gggcatgcat aactattgca gattcatgta catcttacac 120
 aactacatta accactcgag ctatggatca aattcatgcg ttatctctac ccgtgtgaat 180
 gctacattaa ctcaacattt gtgctatgtg taataatgtt gtgacatgctc atattctacg 240
 gctgtactac aatcaataga tgtgatggct gcccaagtct actgatctgg cagtattgtg 300
 attttaatag ccgcccgtac tatgaatcct tgattacaga cttaacca 348

<210> 55353
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-031-Q1-K1-H11

 <400> 55353

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 tgcttgggat cgctgacagg atgagcaagg agatcactgc cctggctccc agcagcatga 120
 agatcaaggt ggctgctcct ccagagagga agtacagtgt ctggatcgga ggatccatcc 180

tggcatccct cagcaccttc cagcagatgt ggatcgccaa ggccgagtac gacgagtccg 240
 gcccatccat cgtccacagg aaatgcttct aattctttgg gcccgagaaa tgcaagccgt 300
 gggggagccg ttaccgncgn cagcctctcc tgcccccggt ttcgttgccg tttcttcatt 360
 agcggaaca aagttttgtg ccggtctatc gggcgccggt ttcctgccct attcaataag 420
 actgcaataa ctgtcgctac ctatgc 446

<210> 55354
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H12

<400> 55354
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 gattcaaattg tgcattgctg tgactcaact ttacagatcc gaggaatgca tactcttatt 120
 cgcgattggg tcatctccac acctgacttt gtatgatatt cagatctatt gatccattcg 180
 gcagtggctc atggctcttg acattgtgcc atttacagaa aaacatgtta ttaccccaac 240
 aggatcctgt aatatgggag ttgacttgcg tatgaagctc tattgaatct ctatt 295

<210> 55355
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H4

<400> 55355
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 gcgaaacgcc agcagccgca tcgatggcg ccaaggcgga gaagaagccg gctgccaaga 120
 atccagcgga ggaggagccc gctgtcgga agggcccgga ggggaagaag cccaaggccg 180
 ataagcgctt tccggcggtc aagtcgtgag gcaaagaagg cggcgacaag aagggtgaga 240
 agaaggcgaa gaagtcggtg gagacctaca agatctacat cttcaagggt ctgaagcagg 300
 tccaccgca catcggtatc tcttgcaagg ccatgtgcat catgaactgc ttcattgaacg 360
 acatcttcga gaagc 375

<210> 55356
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H6

<400> 55356

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gtcgccaccg gtgggcccga cgcactctct acccagaca agaaggtcgc cgcctgcaag 120
acggccaaag cgcgccttga ggagagggttc aagaccggca agaacagggtg gttctttacc 180
aagctccgct tctagatgct cggccctccg aataggcctg ctttagctgg cgaattggtg 240
gatcgacac acttcatctt tgggttcgga ttaccatgaa tatttcgggg ttaatcctgg 300
ggctttttaga gataaatttg ctaagaattg ccggtggtgg ggtacatggt ttcgtgaaaa 360
ggctgggtta aaatttggtc tgggt 385

<210> 55357
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H9

<400> 55357

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gtatactaca atgagggtcca atgggtgctc acgtcatatt gatggatgga catgtggaat 120
atcgtctgag ccgacctctt ctactgatca gatgcatgct aggctctcgc ctctgatgct 180
ccatcttcac gatgatgaac taagtgtctc gcctggcctg ctgcaacaca ttccagcttc 240
ttgcgacatt gatggatgta gagggcttgc ttgagctact gagcaagcag tattctgctt 300
ctgatcggcc ttctgactat caggacttca ttagagactt cacaagacaa ctctttcgga 360
tgtcttc 367

<210> 55358
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A10

<400> 55358

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ggcctagtat tagcgcggggt tttgtcgtgc tgggtgtagc ctggttggtg tggtagcggt 120
ttgcttggtt gttttggaat tggaagtggg ggtaaggctg gcttgcagat taacggatgt 180
aggccgcctt ttatcaccgc tcaattaagc atttgtgggg tctcatgggt atagtctctt 240
tcagatgaga tgttttgcgt gttacctaaag tgtgtagggt gtaatgagcc cttgtatttt 300
gtttttatgc atact 315

<210> 55359

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A11

<400> 55359

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gaccgtattt atacacacga caccgtacat tacactcgcg tgatagtaat ggttatactg 120
caaggggaag gtaaggatgg catttaagtg cagagcggag aggggtgggtg cctgggtggt 180
ctccggccat cagtgcggcg gcaggaccgg cagctagcta gctgcgccgg cgcggcacac 240
acttcgaggc caattcaatt caactgtttc aattcatgta actggcactc tggcagcggg 300
tgtttgctgc tgcttgctgt gtttttttga agacgtgaac atgaaataca aaactgagct 360
tgttttgtcc atggct 376

<210> 55360

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A3

<400> 55360

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ggcattgggt tactcgctat gtcgagtacc acaggtgttt gaatgcaaaa ggggatgatg 120

ctggtggttg cgaaaaattt gccaaagtact acaggtccct ttgccctgga gaatgggttg 180
 agaaatggaa cgagcagagg gagaacggta cgtttccagg acctctctga atgtaccgtc 240
 cgagaccttc aattggacca gtcaacaagt tggccatgca gtccactgt tccattctgc 300
 attcctactt accgaatcgt aaatgccttt tggtccttgc tctttaacca attaccacaa 360
 aactgttagt gatgcctctc gtacgcagct ct 392

<210> 55361
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A4

<400> 55361

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 catcatcgcc aagatgtacc agggcgcggg tgccgacatg ggtggcgccg gcggcatgga 180
 cgaggacgct ccggctggaa gcggtggccc tggccccaag atcgaggagg tggactaagc 240
 ggattgtgtc agtctcgtgt gtctgctgca gtggctggct ggcccagtcg ctgctcgatt 300
 tatcgtcgtc gtcgcggtgt atccgcgtta gaaccttttg ttggtgaaca atattatcgt 360
 ggcacgcgtt ttaagtaata cggatttctg gttcggtt 398

<210> 55362
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-032-Q1-K1-A5

<400> 55362

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 caagaaagcc ttttttgaga agaggatata gaactgtgcg tcaaacatgg tgaacaacag 120
 agagagggag aagatttttg tagccagcca ggagaaattc cacgccggcg cagacaagca 180
 gtactggaaa tcgatttcgg atctcatccc acatgaaata gccaccatcg agaagcgggg 240

gaagaaagac aaggacaaga agccatccat cacagttgtc cagggcccca agcctggcaa 300
 gccacccgac ctctcccga tgcgccatat cttggtgaag ctgaagcatg ctccgncgnc 360
 acatatgttg cagccttcac caccagcacc tgctgctaaa gagggcaciaa aggatggcag 420
 cgccaaaagt ggtggaaagg a 441

<210> 55363
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A7

<400> 55363

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 gtgtaaatct ctgagagttg gtcttgtgtt attaccaggt tttgttcgtt tctttcgttt 120
 tggagagagt ggtgctacct acctgcactg ctacactaga ctaatctgtg tgaatggaat 180
 actactgtac tttgtctttc ttctaaaaaa aaaaaattag actcttactg attctgtaat 240
 accgtactga ttctattagc attattccgt cgtaaactgt taatttaaac attttt 296

<210> 55364
 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F10

<400> 55364

ttcccggaatt gaccacgcga tgcactctaa cgtccatata ctctactccg cagccttgcc 60
 gttctcagaa cttgctattg tcttcggcac tgggttaatc ttaatggggc cacgggttct 120
 aatctgattc caattccaat gctcaaggac cttacagcca aattcatata gttaaagcat 180
 ggcgtacatg atctgatctt tcaaccacta aactaattca tacactcggg ttccagacac 240
 gttcttatca aacagggtga tattcctata aatgtgaata tcatactc 288

<210> 55365
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F2

<400> 55365

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cttcgacgac acctacgagt acaggcacgt cgctcctccg ccagaggtcg ccaagctcct 180
tcccaagaac cgctcctct ccgagaacga gtggcgcgcg atcggagtgc agcagagccg 240
cgggtgggtg cactacgca tccaccgccc ggagccgcac atcatgctgt tccgccgtcc 300
gatcaactac cagcagcagc aggaggcggc tgccgcgcag atgctggcca agtgagcccc 360
tggtggccag ggcggcgacc aggaacgttt aaaaccctaa cccctttcc atttctaaaa 420
ggggcgctcg tggtctgttg atcaattcct ctatgctg 458

<210> 55366

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F5

<400> 55366

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ctgccggtgt ccaaagctgg agaacaagac gccaccgcca ttctaggag gatcggtgct 120
cgcagcaagc tgttcgacgt tggctgcgtg ctcttctaca aagagggtga caatggagtg 180
aacatgcgac cgggggggct gattcactcg gcgagggaag cacgtcgccg tgccgctgca 240
catgccgctg acgattgatc ttgacctgca t 271

<210> 55367

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G2

<400> 55367

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gcccggtgct tggttccaga agaagataag agggaatatg atggtactga atgatcacat 120

atctaaggag atgaatgagc tgaacctaata aaggtgccaa cacattccga aacggccggg 180
 ttgtgattgg catgacctac cggacgagaa ggttaagctg tcaaattgggc agatggctga 240
 cctgatacct tgggtgcctgc ccaacacagc caagaggcac aatcagtggga aaggactgta 300
 cgggaggctg gactgggaag gcaacttccc cacatccgtc actgatcccc agccaatggg 360
 caaggtcggg atgtgcttcc accctgatca agacaagatc atcacagtcc gggaatgtgc 420
 tcggtcacag ggcttttctg acagctatga atttgcgggc aacatccaga acaa 474

<210> 55368
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G3

<400> 55368
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 gctctatgct gctctaactt actgtagagg gggactagaa gtccgagcgc ctttatttgt 180
 gcttgtagcg aagattgctt gcttgcggtg ttgatgatgt atgctcctag cgatgtgggtg 240
 actgggagcg ggacccccga tc 262

<210> 55369
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G4

<400> 55369
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 aatcatatag tactaatatt ggcgaaacat aagac 95

<210> 55370
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G7

<400> 55370

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cgctcgagcg gctcgccgag gtgagcgccg ggagctcgcc ctcagctctc gctctatgct 120
gctctaactt actggagagg gggactagaa gttcgagcgc ctttttttgg acttgtacgg 180
aagattgctt gcttgcttgc ttgttggtgt tgctcctagc gatttggtga ctgcgcgagg 240
gacccccgat cacgcggtac gtagaggagg ttttgctccg cgtgatcggt agtttggagc 300
ctggaagagc caatctcaga ctacgggtct cgcgggttgc tctggggccg ttggagtggg 360
tgggatatcg ggtgcgtctt gtgggtgcat gc 392

<210> 55371

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G8

<400> 55371

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ccaatctttt gatcatccaa gtatagcata catctcagca acacctgcct tcccagccgg 120
cgtgaaattt cttttgctga aactggatgc tggactcttg cggctcttgcc ttacctagac 180
gtgctgacca taagataagg tgtgtaacaa gggacacgat agtgttttgt ctagagcagc 240
gggcgaacag gcgcacactg tcacaattac gtttccagtt cgtcttttag cagcctttac 300
tagttgatat gcttgttcga ttggtatgtg tacaaatttt gggcatgttt cttaaaacac 360
ac 362

<210> 55372

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D10

<400> 55372

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gcacgaggtc aagatgtcca agatcaagga ctccggtgat agaaggatca tgcggaggtc 120

ggagagatag tctcacgtcc caagggcacc tgcggcaaca ctcatgttta gctactgctc 180
 ctgctgcaac tgaccagaga tggctattaa attctgaggc taatccacta attctaggac 240
 ctaatttttg tgctctccaa ctctcttgct cttacatacc ctagctgtga catttctgaa 300
 ataacatctt acacttgctc gtgccaagat ttatgtcgaa ccaattttca cagatacctg 360
 ctgaatgctt ctgtgtaacc cagttctgat tgggctatct taccgtgtag atctggctcc 420
 tgtaggtaca attcaagctt tactgcttca atctgccaaa ctagaatat 469

<210> 55373
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D2

<400> 55373
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 ttaccctggc aactggatgt tctgtgttca atttcagtta cttttgaact gtaaggctctg 120
 ttattactag tttcccagaa cttatatgct cacgtgcgct ttatttcaat gtctattttg 180
 tgatgtgtc 189

<210> 55374
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D3

<400> 55374
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 ggccttctct ggcattgtaataaagtcaaa gttgtccac ttgaagctct ggtctttttg 120
 tccttggact ttggtttgcg ttctggtgag gtagtagttg gtatgttcgg gcttcaatcc 180
 tagatgtcat gaaactgttg taatttcatt gcttcagtaa tgaactttgg attgggtccgc 240
 tgtgaaaaag taccacaacc tcttggtgtg tatgtttcag ctctaaaaaa gcat 294

<210> 55375
 <211> 461
 <212> DNA

ggtggtgttg gtagcagcag caggcagtag gccagtagc

159

<210> 55378
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-E6

<400> 55378

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aaatccgaca ggaaacttct gtttgatctt gtgaactcaa ttttggctga catgaccatt 120
ccagacattg gcttgtgttc aaagctcatg atgaagcgct ggcctgaaat agatcacgga 180
cagttaactg aaatcgtcag gcaaatggtg cagaagcgaa gtaactgtgg gcactttttc 240
ttggaggatg ttcagccttt gccattggac catggttctg aggtagagct ggttggaaacg 300
aagattgcca tgatgatcca tgatgacatt atgacagatt ttatcgtcgg aatcatgtcc 360
taggagaacc tccttgttat cagctaattgt ttaagggctg tagttgttta gctagattgt 420
t 421

<210> 55379
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B2

<400> 55379

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aaaaaccaga aggtccaatc ctagaatttg actgcaactt taatgatgat gaactaacia 120
ttgaaaatat gagggcgctg aaccgtgata accccgatgc taagaatgtg tatgaggggc 180
cacaattttc ggacctggat aagagcttgc agaaggcctt gcacaggtac cttgaggtca 240
gggggttcaa acattcacta catgattggc tgtacgaata catgatgaga aaggatgaga 300
aggagtatgt tgtttggtg aagagcatga aggagttcat cggc 344

<210> 55380
<211> 320
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B3

<400> 55380

acgcattctt gccgtgacat atgccacctg tcgggctgag ccctactcgc actcctctga 60

ggcctcactg gccatggcga tccggacgag caacaacgtg atcggctcgc tgaacctggc 120

gacactcctg ctctcgggtcc ccatacctcgt ctcggaatc tggctgcggt cgcgcgccta 180

cggctccgag tgcgaccacc tactgtccac cccgtccatc gcgctgggcg cgggtgctcat 240

ggccatcgct gtcgcggggc tcgccggcgc ctgcttcgc gccacctgtc tgctatggct 300

ctaccttctc accatgctcg 320

<210> 55381

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B4

<400> 55381

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gagggcgccc tttaccgctg tgatgttgaa tgctcgtgtt cagtagatct ttacttctgt 120

agtgtcgtcg ttgttattgg aactggttag tagatctgtg cattgtgggt gaaaaaaaaat 180

aagtaag 187

<210> 55382

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B5

<400> 55382

tcgtaccggt gcgccatgtc cgaattgacg gatggacca cgcattcgca cccttctaca 60

caccagcagt ttagctgagc acgacacaaa gccgtctggg gccgactggc catggcgatc 120

cggatgagca acaacgtgat cggcgcgctg aacctggtga cactcctgct ttcgggtcccc 180

atcctcgtct cgggaatctg gctgcggctc cgcgcctact gg 222

<210> 55383
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-C1

 <400> 55383

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 ggcgatcgat gagttcatca agattgttgc ccacactgct cactctgaag accttactgt 120
 ggtctaacga atcctaattgt ctggggcgat acatgaccga agcggcatcc attggactgt 180
 tgggtgcttc at 192

<210> 55384
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-C11

 <400> 55384

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 ggtgatcatg tcgtcttctg gcgggcgcaa gtgcgggtgc ggctccagct gtccttcggt 120
 cagcggatgc aacggctgctg gtatgtaccc tgacgtggag accgccgcca ccagcagcgt 180
 caagaccacg gtcctcgccg cgccgaccac caaggccagc gccggcgggt tcgaggcggt 240
 caccgagggc ggcggctgctg actgcaaacac ctgcaagtgc ggcaccagct gcggctgctc 300
 ctgctgcagc tgcaactgag ccggcccggc tcggcgatgg cgcacgagag tcgagaggac 360
 gacgacgagg aggcgtataa taaatataat agcggcgtcc agtaaataag atcctgtcaa 420
 ctgcaccgc cattatccat ggctcgtcgc t 451

<210> 55385
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-C2

 <400> 55385

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 ggtggcgggc gtcacgggca agagggccag cgggcagatc ccctacgtga agagcgtgag 120
 gctggacctg gtccccaacg tcgtgttcgt gccgttcgtg acgctgctcg gcatcatcgg 180
 cgccaccgcy tggcaaataa gcagcaagag cgctaccgcc caggatgacg aggactccaa 240
 ctaggaggag aagaagaagg agacgatg 268

<210> 55386
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-C3

<400> 55386

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 catgcgtgta tttttatact atgttccagc aagtgtgtgt attttttata taccatctaa 120
 tttttgttgt ctgctagttt actttttaaac tatagcacga taaataaaaa agaattggaga 180
 tggatatatat gatctagcta aggccttggt cggttattaa ttgtcctatt ccatatgtat 240
 tagatgggat tggaaaaaat tatgaataat gttcacttgt ttggattata aacaaactca 300
 atcttgttca atccatatgg attgaga 327

<210> 55387
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-C4

<400> 55387

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 gctaaggatg ttctcagca ccggcctggt gctcttctg aggagttctt caaggcacta 120
 gatgctgtca aatctgatcc tgctcttcaa ggcgatgctc ctctcaagt gaaagcgtag 180
 ggatggctgt tcctggctaa cgtcatttca cattttgccg cgggtgggtat ggactggttt 240
 cttgtgtcat ttgccagcaa tgcgcttgct ctgagcagaa taaatttctg gtgagtacca 300
 tcaaagtgtg aatttgaact t 321

<210> 55388
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-030-Q1-K1-F9

 <400> 55388

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 ttttaacaaa aaaaaaaaaa aaatggttatt tttattttga aaaagaacac tgccccctc 120
 tccccccaa acccccacatc ctacttacta tccccctttt tctccccctc accttaattt 180
 accacttttt tttttttttc acccttattt aaaaacctct ttatttttcta aaccattttc 240
 cttcccaaaa cactccccctt tccccactct tactcctttt ccaacatccc ctctctctat 300
 tccctctcca ccattttctc tctccccccc cctttttttc cctccccctt ttttcgtccc 360
 cttatttttc 369

<210> 55389
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-G12

 <400> 55389

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 aagaaaaagg agacnnggga acccaaaata aaaaaaacg ggccggcccc ttaaaagaac 120
 caaaattacc ttccccgtca ttccaacc 148

<210> 55390
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-030-Q1-K1-G2

 <400> 55390

 ccctaccacc acacaaaaat gggttctggca gggccatcaa aaaaggggtg ggggattcag 60
 gcaccgaagc aggagcatca acagcttctc aacaagattc aagccatgat tcaccgcatg 120

ggcagtcttc gacagccaaa gcggacatgg aaatcgatgg ttgatttgta ggttccaaaa 180
 tggcaagaaa gggaatcccc tctaattcatt atgtatactg tggtcagaat gtccgctata 240
 tattgtaaca tcaaaaaaag cacctccagg cctgaggggtg ttactgctaa tgcgtttggt 300
 ttacttgctc ttgtaatatg catacacatt tagaactcat gcagccattg tgtgtgctcg 360
 aaccggtgga tcgcttgccct tgtgtgttgt actact 396

<210> 55391
 <211> 471
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-G8

<400> 55391
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 aataaattgt aaaatttaaa aagaagaagg ggaaaaaaat aaaaaattaa tangtttttt 120
 atattttcaa tttttccttt cttttttttc catccttaca cctcttccat ttttcttttt 180
 aaactccttt aactaaccce cttttcccat cttttcacct tctaaatcct taaaccttcc 240
 aatttaccce tttttccctt tttttccctt ccccttttgc cctttttctt ttttattctc 300
 cgactcttct ccttttccca ctttttacca ttcttttate tttattttca ctctcccttt 360
 tccccctttt ttttccctt ttttctctg ttttgttact cctttccttc ccttttttat 420
 tttttcactt tcctagcgcc cctttccctt ttcttttttt cctttttttt c 471

<210> 55392
 <211> 110
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-H3

<400> 55392
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 ttaccatact ccatactctt aactatatta ccgttttttc catactacac 110

<210> 55393

<211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-030-Q1-K1-H4

 <400> 55393

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 agggcgggcg tcaagaggca caccgaccct ggcttcttca ccatectect gcaggacggc 120
 atggtcggcc tgcattgtgt cctcgtcaac aacaggcaga gggcgggctg ctgggtggac 180
 atcgtcctcc ggcttggggc gctcattgtc aacatcagtg atcttctgca gctcgtgacc 240
 aatgaccggc tcatgagcgt ggagcaccgg gtgc 274

<210> 55394
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-031-Q1-K1-A10

 <400> 55394

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 aaggttacat gctcccctaa acgacggggg aaaggagtta cagaccaacc tgattgctta 120
 ccagaggatc cactttatgc tctctctcta ctgcacacga cgatctcttc tgcgaaagcc 180
 tttcacgagc agctgtatgt ggcggacatc accagcagcg cgttcgagcc ggcttgcatg 240
 atgggcaagt gcgacccact gcacggcaag tacatggctt gctgcctgat gtaccgcggc 300
 gacttggcgc ccaaggacgt gaacgccatg gtggccacca ttcaatacga atcgcacat 360
 ccaattcgtg gac 373

<210> 55395
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-031-Q1-K1-A2

 <400> 55395

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ccaagaccag ctcttctgtt gagaagagct acgagctgcc tgacggacag gtcattacca 120
 ttggtgctga gcgcttcgc tgccctgagg tctcttcca gccatccttc attgggatgg 180
 aagctgctgg tatccacgag accacctaca actccatcat gaagtgcgac gtggatatta 240
 tgaaggatct gtatggcaac atcgctctct ccggaggtac cactatgttc cctggcattg 300
 ctgacaggat gagcaaggaa atcaccg 327

<210> 55396
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-A4

<400> 55396

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 ggccaagtgc atatacagct tgctgcgaag gccttgccca tcacaggaaac taaagctgac 120
 cttccaaaaa aatctagaaa agaggatctt gagagtgttg ctggcatggc ttcgtcagca 180
 acagcaagcg gtgggaagtt tgacgagaag ttgcctggct agaaacctgc aaagcacctt 240
 ggcgaacata gaaagctcct cccacttgct gaggggaagg gaatggtcag ccttgagaaa 300
 cagcagaatg acaaaattct gagctctcta cttgccaaaa actctgatga accggttgat 360
 gtcattcaagg caattacaat gtac 384

<210> 55397
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-A8

<400> 55397

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 gaggcaaacg gtggctgtcg gagtcatcaa gagtgtggag aagaaggacc caactggagc 180
 caaggtgacg aatgctgctg ccaagaagaa atgatctatc tggctggtga ctaaagctgc 240
 tgccaagaag aaatgatcta tctggctggt gctgtgcttg cttgttggtt acctcgtgga 300

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a continuous function and that it satisfies the functional equation $f(x+y) = f(x) + f(y)$.

<223> Clone ID: LIB3088-030-Q1-K1-D3

<400>	55398
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<210>	55399
<211>	153
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-E2

<400>	55399
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<210>	55400
<211>	461
<212>	DNA
<213>	Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-F7

<400> 55400

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 atttctttaa tctatcttca actttatttt cttattttta ttttttatat tttttttttt 180
 tttatttnta caactattta tattataatc atttttacct ttttattctc tttcattcat 240
 tttatttcct attattcctt taaattataa atcaattttc ttttttcatt taatcctatt 300
 accatatact ctttaaacaa tacttataca ttctccttta taccttttca atttttacat 360
 atctcttact tcatttccaa ttattttcta ttccaatttc aatcaatcta tttatctatt 420
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<210> 55401
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-D1

<400> 55401

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 gctgcgcgaa tcgtcacccg aaggtgctgc gcgacaacat ccatgggatc acgaagcctg 180
 cgatccggat gctggcgagg aggggtggcg tgaagcgcat ctccgggctg atctacgagg 240
 agaccgcggy cgtgctcaag atctttctcg agaatgtcat ccgcgacgct gtgacctaca 300
 cggagcacgc ccgtcgcaaa accgtcaccc ctatggacg 339

<210> 55402
 <211> 334
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-A2

<400> 55402

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 cattaaccct ttcacccata atcactatta catcaaaacc gattgcttaa caaaattttc 180

ctccatatat tgccccctcc ctcaaaaata tcatttctgc attccttaat atcctttcca 240
acaatatata ttgcttactt tgtacaccaa ccacatacac aattatttcc caaaaccctt 300
tttttttttt ttttcaattc ccctacaaaa attt 334

<210> 55403
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-A3

<400> 55403

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tttatctgat atatgtgaac aatccantnn ttaactccgt cagtagagat ggataacttc 120
gtcgtgaatc aaacaagatg atggataact tcattgtgaa tcaaacaaga tagcctttat 180
gaggggaatgc aggttgggaag tttgggttcac aacgctactt tacacatcac aagattattc 240
acgatttttt caaccttttt gttcggtttca atattgtaga aaactactgt acttaatgtg 300
accacatata tgtttatctt taattgaaac ccgatagtat tttttt 346

<210> 55404
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-B1

<400> 55404

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gacggcttct tcggctgggc gcaggctgga gccctgctg ttctgtgcc tgtactcggc 120
gccccgcggg tgccaccggg cctgcatgga ctgctcaag tccagcctta gcgcgcgacc 180
gcctgtgtac cagtgcattg accgcgtccc ctactttttt ctgcgccgct tcaccgcgcc 240
ttccgtctcc gccgcgcggt gaccactctg ccgacgccta cccgcgcgact ggtctcttgt 300
tgctctttga gtcttgacct aaccaccca ccacaaacc ggtttcaatt cttttttcca 360
acccccaccc gctggtgaat tagtgtactt ctaacttttt aaccacctt tagattaatg 420

gtttttttttt ttt

433

<210> 55405
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-B3

<400> 55405

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aattccatcc atatccatat ctactttttc catacaaaca acttatcttc tctatcccta 120
tagcaciaag ctctcatatc tctacatcca ttttctctt catagtgatg catcatcgca 180
tctataacaa tatc 194

<210> 55406
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-B7

<400> 55406

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atcaacaata acatggtaaa gaatgatcgt gagaggggtg aggattctaa accagcctcc 120
attccaactg ctgccggtgg agggggagct aaatgagctt ttgatcactt attgatggcc 180
aatatatggg aggaaacgtg attacatgct taccacggtt gtgctggaac caaattgcct 240
tgaccttgaa tggatatttt catgtttact tcacgtatga taaggtcaac ggcaagaaaa 300
atcatttacg ttgtttgata gcattagatc atacctcaag ttttctgtat attcttcgat 360
gcttttttaa tctgattcat t 381

<210> 55407
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-C10

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ccacacacac agatcattga tagcgcgtac agggagagga aggtacacag acagaaatgg 300
aagagagt 308

<210> 55410
<211> 55
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G4

<400> 55410

aaaaaaaaa cactaattaa taaaaaaaaat aaaaaaaaaa aaaaaaatta taaaa 55

<210> 55411
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G5

<400> 55411

cggacgcagt ggagtgggcg ggcgtgcccac cagcgtatct taaatttatc tgggaccaag 60
ggaccat 67

<210> 55412
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G6

<400> 55412

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gggctgcttc ctaaggctag ttatatctaa acagcagagc gtgtaccatc cttaatcccc 180
cgggatggag ggccaacagc aacaagatgc accatcatct tacttcttta ac 232

<210> 55413
<211> 379
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G8

<400> 55413

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gggttgctcg attggaggta ccatacatcg cacgaaggcc agcgctgata aattatagta 120

ttgaccgtcg gttgttgcca cggaattgct tgatcaattt tctcagggca aaggggttgt 180

tcaatgacga ggctagtttc ctttctgtcg ccgctatagg cgatgagaaa tttcggcgcc 240

gatacgtgca tccttacgag gaggattttc caggccttgc tgctgctttt gcttctagct 300

gtgctggaga acaccaatgg gaacggggtt attaggatga caggcgaaaa ataaagaaag 360

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<210> 55414

<211> 125

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H12

<400> 55414

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gagtcctaca tgcagggcat ggacattatt agatagtgca gattcatgta catcttgaac 120

atcta 125

<210> 55415

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H4

<400> 55415

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agaggacgag aagattgcgt ccaagctgcc ggccgatgac aagaagaaga tcgaggacgc 120

catcgacgcg gccatcagct ggctggacgc caaccagctc gccgaggcgg acgagttcga 180

ggacaagatg aaggagctgg agagcctctg caaccccatc atcgccaaga tgtaccaggg 240

cgcggggtgaa gacatgggcg gctctggcgg catggacgag gacgcccccg ctggctgcgg 300
 ctgccctggc cccaagatcg aggaggtgga ctaagcgggt tgggtgcagg tcttgagcgt 360
 gctgcagttg cttgg 375

<210> 55416
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H5

<400> 55416

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 gagaagtcac cttgggcttg ttacaggaaa agaaatgcat gctacacttg catttcaata 120
 atacccgat tcaataaaaa atattagtgt taataacaat ttacatctac aagttttaag 180
 cctacacagg ttatgaactg aggaagccaa caatcttcca ttatggatct gaactctgag 240
 ttattacact agatttccaa aaaaaaatac tggatgtgaa ctgcatctct atggaatgcg 300
 aacgaaatgc tgctgcacca atcatttttc ttttcatgaa gcttcggtaa acaccggtat 360
 tataaaattt gcaatggtga cactatttga atggccttct gacaataaag aatgggtttgg 420
 cttaaatttg accaactg a 441

<210> 55417
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H7

<400> 55417

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 cctgcctact agaaataact tcttctcttg cttactactc ctagcactct tcctactctt 180
 ctacattctc ttctacctat tatacaatct aatcatacac t 221

<210> 55418
 <211> 249
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-G1

<400> 55418

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 ttacatgccca accctgcgtc tttttcatca gtattctgat atcatgaaaa aatttcaagt 180
 ggatagaggt tctatcaaaa tttgtctatc tggcccaaac ataatgtgtc ctggggttgac 240
 tttaccttg 249

<210> 55419

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H8

<400> 55419

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 ctggatgcct gggttggaaa ggtgcatact acattgcttt cagttgaggc agaaacacct 120
 gatcttggtg ctgcctaatt tagcacctgt tacacttccg cgagagggtt ggtcagcaag 180
 gtgatgagat gcattgtgac acttgtagtc attttctgga taatgaacct gctgccctga 240
 gcgtttgtca gcctgcgttc tgatcggggc ctgtaatttc ttttttgatg tcctctggac 300
 atggatgggt acaactttac gcagtgtaac ggaaacggga ccaaatgatt gaaattttta 360
 tactagtaag gtgttactgt agttttccca gttggattt 399

<210> 55420

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H9

<400> 55420

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 ggatacttca ataaggacca atggactacc acatcatatt catttatgca catttagaat 120

atcatctaaa ctaacctctt tcacttatca gattccaact ttgctctccc actctgatgc 180
 tccatcttca ctatcatgaa ctaactcata ttccttcaact gtcgaacaca ttccatcttc 240
 ttgccacata aatcctagta gatcgcttac tatacttact gatcaagcat catccttttt 300
 ccaatcggcc taataactat caatacttca tataaaactt ta 342

<210> 55421
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E2

<400> 55421

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 gtcagctgta cagctgataa ggcacatcgc caaggcttgc aatgcgaact aaactgaatt 120
 ataatgcccc ttcatggagc gcctctgctg gcatggctct caataatcat gcttcaactca 180
 cgccaagcac atctacatct cggacatgat gaaccatgat atccagaagg cgacactcat 240
 cgtgctggga gcggtagaac tgct 264

<210> 55422
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E4

<400> 55422

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 gaagaagcat cggcagcatg tcggagggga ctgccaaactg cgtggacatc ctgatcgcca 120
 tcactctgcc tccgctgggg gtgttctcctca agtacgggtg cggccacgag ttctggatct 180
 gcctcctcct caccttctctc ggctacatcc ccggcatcat ctacgccatc tacgccatca 240
 ccaagaacaa ctagctagtc atccttgccg acgacgatcc atgtctctgt atctgcgtct 300
 gttcatatgc ctgatgccga cttgtgctgg atgtagttgc ttgaatttaa tcctgttttg 360
 ctaccgtacc caccatcatg atcatctggc aacgcgacgc aattatcatt gttattacaa 420
 gttcacagat tgattcattc gctgctttt 449

<210> 55423
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-E5

 <400> 55423

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 agtacagtta ggtgtgttgc cgtgggttga gttgccgatg tgtttgtttt atgggctggg 120
 ctcggttgat gtgttctatg taagaaagta actgtattgt ttatgcagat accttaccat 180
 gcatgcttta agtagcatat cataatctat aatgaatatg ttttatgtat attactataa 240
 taaatctctt tttttttttt acttattata tttttttatt ttttttctta ttatatatta 300
 ttcttttata tctatatt 318

<210> 55424
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-E7

 <400> 55424

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 agaagattat ttggcacaaa atgcattcac cccatatgat aagttctgcc cattctacaa 120
 atctgtttgg atgatgcgca acattattca cttcaacaca ttggcaaadc aggctttgga 180
 gcgggcagct ggtactgacg gccataagat aacatacagt gtcataaagt atcggatggg 240
 ggatctatct tctgcctag tatcccaaaa gtttgaggat cctgcataag gcgaagaagc 300
 tttgggcgctc aagtttaaga aactgtttga cgaccttacc actgggtttc tctacctaat 360
 agatgatgca cggatgaactg ctgtagattt tgtgtatgac aataatggct gtcaaatggt 420
 tt 422

<210> 55425
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E8

<400> 55425

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acgctctgcg tcttcgatgc ggataaggca aacaagttga agcaatctct tacaccatgt 120
ttgaccgtcg aggaggtctg attggatata tggcaacatc aggttgaact accaaagctt 180
ctttatcagt agcagagtat gctactctat gtacttttgg aacctaagct attatacctg 240
tcagtgttgg atgtgtggat cttgca 266

<210> 55426

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E9

<400> 55426

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ccaaaaagac acaagctcaa aatgatccac ctgatcacca gagaaattgc gaaactctct 180
agcctatcac tcatatccat catcatagga gccgctacat atatgatctt cactacacaa 240
ggaatcagat atcacaccat ctttaccagt ttagcgctcg accagagcta tgcagatcat 300
cacctgatct caaagtga aaagccagga tactagcaca tacgctggct caggtgcata 360
cagacacctg accacaactt tgcaacgact tgtacctgcc tagtcccaa gcatttgatg 420
gatgatcaag atattcaatg tgtccat 447

<210> 55427

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F3

<400> 55427

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ggcctgtcta cgtgctacct ggggccgcaa cattggcctg atgctgctgc catgtagccc 120

<211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-F7

 <400> 55430

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 gtcttattcc attggcatct ggtgggtggc aagaaactaa tcaaggagtc tctctcttct 120
 cattctctgc gtggaggact gtttagctgt agctgagtgg catgctttcc agaacataaa 180
 ttggcggaag agaatttcga tgctaccact ttgcgagaag gaccgaacca actcaataac 240
 atcaaactta gatactgcag cttaccaact ttgtcaatat tgaagattga agagcatcta 300
 gat 303

<210> 55431
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-E11

 <400> 55431

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 gccagtccat tctcttacca caggtttcgg gggaacccaa atgcgggtca caacacttaa 120
 gactacaata cctgcccggc aagtactctc cgggcacgtt cagcacactc aagctgaata 180
 tcccacccag cctaattggat gccaaaccgca atatcaatct aactccatg cgctacatat 240
 ctcgatcgct actaccctga tggctagcag taaccaggtg caaaagctct gagaatatca 300
 gctgaggata cttcaccttt acaagcctct tgatctagaa tcatacaata tgcattcttc 360
 attggtcttc ttaccaacat ttcttgaatc atttatgagc aatacacaag aatgctttag 420
 aagtattatt ac 432

<210> 55432
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-C2

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 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
 43. *Chlorophyll aq* (Chl *aq*)
 44. *Chlorophyll ar* (Chl *ar*)
 45. *Chlorophyll as* (Chl *as*)
 46. *Chlorophyll at* (Chl *at*)
 47. *Chlorophyll au* (Chl *au*)
 48. *Chlorophyll av* (Chl *av*)
 49. *Chlorophyll aw* (Chl *aw*)
 50. *Chlorophyll ax* (Chl *ax*)
 51. *Chlorophyll ay* (Chl *ay*)
 52. *Chlorophyll az* (Chl *az*)
 53. *Chlorophyll aza* (Chl *aza*)
 54. *Chlorophyll abz* (Chl *abz*)
 55. *Chlorophyll acz* (Chl *acz*)
 56. *Chlorophyll adz* (Chl *adz*)
 57. *Chlorophyll aez* (Chl *aez*)
 58. *Chlorophyll afz* (Chl *afz*)
 59. *Chlorophyll agz* (Chl *agz*)
 60. *Chlorophyll ahz* (Chl *ahz*)
 61. *Chlorophyll aiz* (Chl *aiz*)
 62. *Chlorophyll ajz* (Chl *ajz*)
 63. *Chlorophyll akz* (Chl *akz*)
 64. *Chlorophyll alz* (Chl *alz*)
 65. *Chlorophyll amz* (Chl *amz*)
 66. *Chlorophyll anz* (Chl *anz*)
 67. *Chlorophyll aoz* (Chl *aoz*)
 68. *Chlorophyll apz* (Chl *apz*)
 69. *Chlorophyll aqz* (Chl *aqz*)
 70. *Chlorophyll arz* (Chl *arz*)
 71. *Chlorophyll asz* (Chl *asz*)
 72. *Chlorophyll atz* (Chl *atz*)
 73. *Chlorophyll auz* (Chl *auz*)
 74. *Chlorophyll avz* (Chl *avz*)
 75. *Chlorophyll awz* (Chl *awz*)
 76. *Chlorophyll axz* (Chl *axz*)
 77. *Chlorophyll ayz* (Chl *ayz*)
 78. *Chlorophyll ayz* (Chl *ayz*)
 79. *Chlorophyll azz* (Chl *azz*)
 80. *Chlorophyll azaa* (Chl *aza*)
 81. *Chlorophyll abz* (Chl *abz*)
 82. *Chlorophyll acz* (Chl *acz*)
 83. *Chlorophyll adz* (Chl *adz*)
 84. *Chlorophyll aez* (Chl *aez*)
 85. *Chlorophyll afz* (Chl *afz*)
 86. *Chlorophyll agz* (Chl *agz*)
 87. *Chlorophyll ahz* (Chl *ahz*)
 88. *Chlorophyll aiz* (Chl *aiz*)
 89. *Chlorophyll ajz* (Chl *ajz*)
 90. *Chlorophyll akz* (Chl *akz*)
 91. *Chlorophyll alz* (Chl *alz*)
 92. *Chlorophyll amz* (Chl *amz*)
 93. *Chlorophyll anz* (Chl *anz*)
 94. *Chlorophyll aoz* (Chl *aoz*)
 95. *Chlorophyll apz* (Chl *apz*)
 96. *Chlorophyll aqz* (Chl *aqz*)
 97. *Chlorophyll arz* (Chl *arz*)
 98. *Chlorophyll asz* (Chl *asz*)
 99. *Chlorophyll atz* (Chl *atz*)
 100. *Chlorophyll auz* (Chl *auz*)
 101. *Chlorophyll avz* (Chl *avz*)
 102. *Chlorophyll awz* (Chl *awz*)
 103. *Chlorophyll axz* (Chl *axz*)
 104. *Chlorophyll ayz* (Chl *ayz*)
 105. *Chlorophyll ayz* (Chl *ayz*)
 106. *Chlorophyll azz* (Chl *azz*)
 107. *Chlorophyll azaa* (Chl *aza*)
 108. *Chlorophyll abz* (Chl *abz*)
 109. *Chlorophyll acz* (Chl *acz*)
 110. *Chlorophyll adz* (Chl *adz*)
 111. *Chlorophyll aez* (Chl *aez*)
 112. *Chlorophyll afz* (Chl *afz*)
 113. *Chlorophyll agz* (Chl *agz*)
 114. *Chlorophyll ahz* (Chl *ahz*)
 115. *Chlorophyll aiz* (Chl *aiz*)
 116. *Chlorophyll ajz* (Chl *ajz*)
 117. *Chlorophyll akz* (Chl *akz*)
 118. *Chlorophyll alz* (Chl *alz*)
 119. *Chlorophyll amz* (Chl *amz*)
 120. *Chlorophyll anz* (Chl *anz*)
 121. *Chlorophyll aoz* (Chl *aoz*)
 122. *Chlorophyll apz* (Chl *apz*)
 123. *Chlorophyll aqz* (Chl *aqz*)
 124. *Chlorophyll arz* (Chl *arz*)
 125. *Chlorophyll asz* (Chl *asz*)
 126. *Chlorophyll atz* (Chl *atz*)
 127. *Chlorophyll auz* (Chl *auz*)
 128. *Chlorophyll avz* (Chl *avz*)
 129. *Chlorophyll awz* (Chl *awz*)
 130. *Chlorophyll axz* (Chl *axz*)
 131. *Chlorophyll ayz* (Chl *ayz*)
 132. *Chlorophyll ayz* (Chl *ayz*)
 133.

<223> Clone ID: LIB3088-029-Q1-K1-C3

<210>	55434
<211>	268
<212>	DNA
<213>	Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C4

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268

<210> 55435
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C5

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ggcaaagaag aagatcaaga actgaagctt gccaaatcgg ttccttgcat ggtttgcgctc 180
aacaagacga agtttcaaag cttttgttgc tgcataatgct gctgcaaccg tttgcactcg 240
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catattatta ctaata 316

<210> 55436
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C7

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ctatgtccag tatgctggaa accttttagta gtccatcaca taaggagcag ctggaagagc 180
gtatgtcttg cattaaggaa gatccagcta tgaagtcaat tcttgatgag ttagagaaatg 240
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aggcattggg agcttgcttg tcattttgtg 330

<210> 55437
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C8

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ggagcatttg aaatgggacc gggacaatca cgcattactc caatggccca agtcacaaaag 120
gcaattctcg agaaccctaaa tgacaaca 148

<210> 55438

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D1

<400> 55438

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gctgcaccac tgctattcaa cgtattcact gccaatgagc acaaaacgcc gtggcgcacg 180
tattgcttga aggaagatga accaaggcgc attcaaaaag gtgcttgaga agcttgcttg 240
tgaaaggtag aactcttggt aatccaattg acttgaaaca ttttgggcta aacatggcac 300
aaataaagtt tgtaaacgat caaggtaatt gagaaaaggc tttgctattg ttttgccact 360
ttgtaggttg ttattcttca attaggcctg atttattggc tgtatgtcta tgtgcccac 420
ttcagacatt tgtaggaatt agtttgttct cttgtttaag t 461

<210> 55439

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-029-Q1-K1-D3

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agcgactatg ttgtgaacaa tgcaacctgc cctgtcaccg tcgtcaagtc aacaagcacc 180
gaaggttgat cttatcgccg agatgcctgg atgtgatgtt gtaataaaga tggttggcct 240
gatgaagaac atgcactagt ttctagctat ttgaaacatg ttgaacgagg caattcta 300

gtaataataa tagacaaagt gccttatgaa ggacatgggt gacatgcctt tgntgctgta 360
tgagtgatgt ttatagtttt gagggtttga agatgtggat catttgc 407

<210> 55440
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D4

<400> 55440

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gagagataca taaaaattta ctcttgaaat 90

<210> 55441
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D6

<400> 55441

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gggcttttgg agctagggac caatgaccgg ttcaggagcg tggagcaccg gtggccagcc 120
aacatgagca gggacacgga caggggtctac gaggcggtct tcttcaacac tgacgttagg 180
aggtccgaga ggatgtacgg acccattcca gaccccgca agccccgat gtacaggagc 240
gtcatggacc gagacttcat cgtatagttc aacaccattg gactcgatgg ccgttcgctt 300
gaccacttta agctctagct ggctggctgg gtacgtttc 339

<210> 55442
<211> 154
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D7

<400> 55442

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gataaatgct aggcgagaaa cattcttgtg tgtagttaat acgtcactct gatgtttttg 120

ttgtttgtga cataatagca gtgcatgttg ttct

154

<210> 55443
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D8

<400> 55443

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ttcctctgcg agaagaaggt cagaaaggtg gacatgcttg actgcgtgac catcctccgc 120
tccgagaagg tcaaggacga gcttattctc gatggcaacg acgtcgagtt agtctctcgc 180
tccgtcgtcc tcatcaacca gaaatgccat gtcaagaaga aggatatcat gaagtttttg 240
gatggtatct atgtgagcga caaggggtgtg atcgaatagg ttcagtgtgg gtcaatttgt 300
gttatctttt gagttggtat tattgtttgt tttgctatct ctctaggttt ctttgttatc 360
ttttgtatgt ttttttgtcc tttttttttt cctctatctt atcttttttt ttttttttta 420
atctttattc tttttttttt 439

<210> 55444
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C10

<400> 55444

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ggcgcaagac ctgaaggggc ccgctaaatc atgcctagac tgacaagtct ctagcggagc 120
cccatccacg gagatcttca gaaatgaatc ggacgataaa tgcactatta ttactcaca 180
gccattctgc attgggactt ttgatggtac ttattagaaa gatctgctgc cttctgtagt 240
atctatattc cataacaact gcgagaccaa atctttccga tgcccatggt atgctagcta 300
aaattagact ctaacttata cgatccacta atc 333

<210> 55445
<211> 320

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-H3

 <400> 55445

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 cgtgtagcct cggatccttg taaattttca ggtcttggtc aggagtttgt tagtgagact 120
 gctttgcttc ttctttcttct tcttattttc tctcgatcca tacggtttgc acatggaatt 180
 atatcagtaa caaattagag tagcttacta ttagatttac agccagacat gtcatgtact 240
 tgctgctact ctcttgcaga tgggaatcga gcgtgtagcc ttttgagagt naanaaaaat 300
 ataaaaataa aattaaatat 320

<210> 55446
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-A1

 <400> 55446

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 ttgaattaat agcacatgat gtagattaga gtcagcgtgg ctagagaatg gggattccaa 180
 cgcacgtcag gtgctaatagc tgttcgtgat gtcaacatga tcatatgtga tgaactgctg 240
 atctatatac actgagatac atgtactgaa tgccaacatg gagcaccaaa tgtgtgataa 300
 tcacctgcta atatagctgt ctgatgaaca gatggatgtg attactgata tgctctcatg 360
 tactgatact gctactgtcc ggaaactatg ggctgacggt ctagaaggcc caggcatact 420
 tacgcgt 427

<210> 55447
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-A2

<400> 55447

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ttagctcata cggtcccgca agctcaactt tcatgaaggg cagttgtcgt gaacgctaca 180

ttctactcgg cttgcccgat gaatgacctt gtcactgacg gcacgttcgc tctcgttgag 240

aagctggact gcttcaacag ctgggttcct gcctacgact actacgactg gtcactacgc 300

ttcaagtggc cgagaccgtc taagctgacg ccgagaagct tcactacgct tgaatggacc 360

attcctgtag actccccctc ttgcgtttat aggtttaagc attttggtgc c 411

<210> 55448

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-A3

<400> 55448

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ggactgagaa tttgtcctca gaaaaggaag cagctgacga tcattcatcg gtaagcaaac 120

ctgtgttacc ggatgccac aaattaacag accaagagaa tggaaatgat gcagtataga 180

gagtggatgt tagcgtagct agtcgttctg ttgcatctga cgcgttcact gaaaatcagt 240

ggctcagacg tgtctgcttc atcgacgcgc gtatagctgt gaggcatagt gagcaatagt 300

ttcacgaaca tctatcaaga atcacacgaa gatgcagcat gaggcaaatt tgtttcaaac 360

tataaaccac gatctagggg taagcccttt tttctttttc cccacgaatt ttttgatgta 420

ctgtaggtta tgtgatgcat at 442

<210> 55449

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-A4

<400> 55449

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agcttatgct gtagaacctc gactagatct atcgacatcg aaccagctg gagaaaaacc 120
 tatgacgaat atgctccatc atgattaccg tagcttgaat ctccgactca gcatctaacg 180
 cagcactggt gaaagcacat tagt 204

<210> 55450
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-029-Q1-K1-A7
 <400> 55450

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 tcatgtcaac tcttcccagc tgtttactgc gatcggaggt ggcattctgt gtgctaaggc 180
 atcaatgctg cttcagaatg tgccacctgc cctactagta cgatttctga gggagcatcg 240
 ctccgaatgg gctgatcctg gtgttgatgc ttattctgcc gctgctctga gggctagtcc 300
 atatgcagtt cctggcttgc gtgctagtgg gtttatgggc agtcagggtta ttctgccgtt 360
 tgcacatacc ttagagcatg aagagttc 388

<210> 55451
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-029-Q1-K1-B1
 <400> 55451

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 caccgcgggg aagaagggtg tgctcttcgc cgtgcccgcc gcgttcacgc ccacctgcac 120
 ccagaagcac cttccggggg tctgggcca tgccggggag ctccgtgcca agggcggtga 180
 caccgtggcc tgcgtctccg tcaacgacgc cttcgtgatg cgcgcgtgga aggagagtct 240
 ggggatcggg gacgatgtgc tgctcctgtc ggtcggtaac ggtagctgg 290

<210> 55452
 <211> 470
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B10

<400> 55452

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taggtcgaac tggccgtgct ggtgctagcg gaactgcatt cacttttttc acacacgcaa 180

atgcaaagtt ctcaaggaat ctagtgaaga ttctgcgaga agctggccaa gttgtgaatc 240

ctgccttaga atccatgtcc aggtcttcga actcaacggg aggaggcaat tttcggtcga 300

gaggcagagg tgggttttgt aaccggggcc atatgtctgg atcaaatacc tttcctttaa 360

gaagaagaaa gccatattga tgtgtgcaaa agaactgtgg gagtatggga ctatttgtat 420

actactcggg attaagtga ttcttttggg aaatttctga gaaatttccc 470

<210> 55453

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B2

<400> 55453

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tggcagaggt ggcgagcgac gaggaagagg catacgccga tgacacctac tgatcgctcc 120

tgcattgcagc tcagcagctg ctcatgcatg gtgttcagtc cttcgtgctg catacatggc 180

gccgccgagc gctcgagctt aaccctgctg tgtgatgact gatgttgtat ttgcactctt 240

tacgctgttt gtataattaa agtctgtaca acgctgtaca attgcagatt gccttgtaca 300

gatgaactag cgtgcagtga aaaa 324

<210> 55454

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B5

<400> 55454

55457 55458 55459 55460

<400> 55457
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ctaccattcc gatagactca aagccttcgg acctatatct gtgtctctca accgtgccaa 120
ccataatcaa caggtcattg tattctcttg tatcaggcaa attttaatat aatatatgac 180
tgtgttaaatt attattatag actctccttc 210

<210> 55458
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-D4

<400> 55458
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acatctccag caaaaaaagg ctgtagggcc aatgactttg ttcagcgccg ctggacctta 120
tccattttct tacattcgcc tcgtactcgt aagaactctt ggtggcacca tgtgacattc 180
catgtaaatt ac 192

<210> 55459
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-D5

<400> 55459
aaccaaaaca agatttgcaa ggctgagcta acgccctctt tttatcattg aacagccaaa 60
cacaatgttt ctctgtacaa acccaattgc ctaaccgttt ccatttccat gcatttttgc 120
ttctatttat acccaacatc tccaacaaaa aaaggcttta gggccaatta cttttttc 178

<210> 55460
<211> 103
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-E10

<400> 55460

cactcttccn tcctctcaaa acagttcggt tactaagacc ctgttctacc cccggggctg 60
ttttttatga aaggacgctc gctcaaatac tncntcttc tat 103

<210> 55461

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-E6

<400> 55461

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caaagaatat atatgagagc tgtgtatcta aggtagaaaa taattaggct ttagaacaca 120
agctgctgta gtttttgtca gttctcacca tcttttcagg aacatcatat tcagcaaacc 180
aaaatcacgt ctcaaacctc attgtcacac ttaatcatgt tcttcttagt cctaagtttc 240
acttctgttt tttaatctca tgattaaata tgaacaaact gaattgttgc aacatggtat 300
tttaaaatt 309

<210> 55462

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-F4

<400> 55462

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catctctgtg cctgccaaag ccgactttgt gcgcccggag ctccggcagt cttcctagat 120
tgaggcagtg agcggagagg gagagggaga gagaaagaaa ggatttcgtg tcccagagta 180
gaacagaatg ctgtatgttt tgtgcgactg tttgtaagtc aagtctgaac tgtgaacct 240
tgtttgcttc tatcaaaaga cccggaaaaa gcctgggca 279

<210> 55463

<211> 136

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-F7

<400> 55463

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cgccccgcgc gctgacgccg acgacgccgc ggacgaggac gccaggggtcg gcctcaccat 120
ctggaggctc cccggc 136

<210> 55464
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-F8

<400> 55464

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atttaataaa cagctggggg agtaataaca ggtccttgta tcaaatatca atttaggtta 120
tgaagaaata gttaatactc aggttcttgc tttcaatgcc cactctgtaa aaaatttaaa 180
gaacttagcg accatcgtgg aaaatttcac ggattaattt ctgaagtntg atctgtacta 240
tgaccagatt gttgtcctcg agactaaaac ttgctagact gctatccacg acattctcac 300
gacacactgt ataccgtctg cattgtcaga tgaccttaac gcctac 346

<210> 55465
<211> 83
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-G9

<400> 55465

attttaaact gtggtattgc aatgactaaa gtatattata gtattttcaaa aaaaaaaaag 60
ggggagggaa aaaatttttt ttt 83

<210> 55466
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-G2

<400> 55466

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taaaaaaagg aaaaaataaa aaaataacag ggccatttta aaacgagacc aagcggaaca 120
aacacacaca tgcaactaat taccaaaatc tataagatca cctacattca attca 175

<210> 55467

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-H1

<400> 55467

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actggactac agaatacttc aaacttggtc aaattgatat cgatgactct gtatactaac 120
tgatgaatac taaatcaatc ctcaaggata tcaaagcgct gtatataagg tacgtaacaa 180
gctttgatgc cactgtacac catgtacata ttgcaatgct taccgtctaa cagatcctta 240
aactgaataa agattattat attattacag tagctacat 279

<210> 55468

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-H12

<400> 55468

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caattccatg acagaccgtc agaccccgaa gtcacagagg agaaagagga ggacatggac 120
aagaggccac ctacagcgag cagattatgg agcggaggag cttacgactc tgatacagag 180
gatcctgaca gcctgaaaag cgagggtaaa gacgtaactg ctaacttcca gatgaaggat 240
gaacaaaaag atgatctgta gaagtttcag aagtgtcccc aaagttactg agttgtcaat 300
gggatcgtcg acatgcatgt tgaagagtgg ggacgcatct gaacctgtcc gtgctgatat 360
ctgccgctgt gcatcttgta cagactgaac gttttgctg 399

<210> 55469
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-H2

<400> 55469

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caagaaaggg gtcataccga agctgtgggt ggaatggagc gagcactgta ctacggaaga 120
cttcaaactt ggtcaaattg atatcgatga ctctggggac gaactgttgg atactaaagc 180
aatccgcaag gatatacaag cgctgtatag aaggtaggta acaagctttg tggccactgg 240
acaccatgta catattgcag tgctgaccgt cgagctgac cttaaactga agaaagaggt 300
ggcgggtggt gcggtggcta cattgcgcgg taacaaaaga agtcattcca agctatatcc 360
gtggaatggc ggcttctttt gttcctagta tgtgccaact tggggcagca gccagctgat 420
ccccagacac atttctagac tctttttt 447

<210> 55470
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-H3

<400> 55470

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caagctttgt taccacttca caccatgtac atattgcact actcaccgtc taactgatcc 180
ttaaa 185

<210> 55471
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-H9

<400> 55471

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gcttagctaa gagaggggggt tacttaattt caagttatta accttcttga cgcaactccc 120
aacttgggaa aaccaaggcc ttcccgacct aaatttccaa acgttaaacc ctcaattctc 180
caagtggcac attaaaaaca atgcctgacc agttcggaat caggaccaag ggcccaaatt 240
aattggcaac 250

<210> 55472
<211> 165
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-B2

<400> 55472

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tgctcccgga acaaaacaat atttttatca tattctttaa atcttttcca tcttatcata 120
caactccaaa ttcctataaa tcacatcatt tctaatttt atcca 165

<210> 55473
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-C1

<400> 55473

aataacttag tgggagaatc cttctttcct agggaaaggg tcaaaggttt aaaggctgaa 60
aaattctcct tccaatatgg tttttataaa aaacaactat gccagaactc acatgaaaaa 120
acatgtgttg gaggcacaca ttatgggaaa aacggtaaaa aaataggagt acagagggtg 180
aacacatgaa aatacaagggt ggaaggcatg tgttatgtgg aaataagt 228

<210> 55474
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-C10

<400> 55474

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gaatcgccgt cgccgtctcc gtccccggac gccgcgagct gctccgcgga ctccgagtc 180
gggtccgggt ccggggcccg gcccgccgtc aagccgaccc cgcacaaggt gttcttctgc 240
aacttctgcc tgcgcaagtt cttcagctcg catgcgctgg gcgggcacca gaacgcgcac 300
aagagggagc gcattgccgt caagcgatcc tcgttccacg cgc 343

<210> 55475
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-026-Q1-K1-C2
<400> 55475

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cggctctgct ctcaacaagg accttgtctc catatcctcc atcctgttcg aaatcaagaa 180
gtattctagg acgttttagt tgtttcaccc ctttccatgt aactaggac ggctagctga 240
ggggtagctg tgtatcctta ctttctaact ggtatgtgcg actgcagggg aaacaagggc 300
atcttctcgt gggttctatc ttcgtctgtg ttacccgact tgaccctgc ccctttccag 360
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atctatttta aacttc 436

<210> 55476
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-026-Q1-K1-E9
<400> 55476

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cttcttgca c tggtagacgg gggagggcat ggacgagatg gagttcaccg aggccgagag 120
caacatgaac gacctcgtgt ccgagtacca gcagtaccag gacgccaccg ccgacgagga 180

gggcgagtagc gaggacgagg aggagggaga tctccaggac tagaataggc tgcttcacat 240
tcagtcaccg tcagtcacga aaaactaatc atttgctgct ttctgctgct gtagtagtag 300
taggtcggta atcatctgtc gtgggtttgt ttctgtttcta tcattaatca gcattagtag 360
tagcagctgc tgctgcgggg gcacaacaca agggggggat aggaactgca atacctgtt 420
gcgctttggg tgtttc 436

<210> 55477
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F1

<400> 55477

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gaacgatgag gaggggagac gttactgcat gcatggccta agaagctgtg tgcacgacaa 120
gactcctgag atcatgcctg cagttaacaa gttcttcact gaccctaagt gaagcatgtt 180
gattggcata ctactactac tacttgctac tggggatttt acactttgct ggcaactcaa 240
tatgttgggg acatccatga cctctaaaag tactttgagc gcttggtgat gacttggtat 300
atgtatgatg gtggatgagt ttgatcgctc atgcttgatg ttcataattca tctgtcatct 360
ggatttgccg cacttcagtg ataaaattgt catttgata ctggtaatgg taccgtcttg 420
tgaagttcgc tcc 433

<210> 55478
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F10

<400> 55478

cggacgcgtg gggcgtttca gtggctctgt taagttgccc catatccctc gtcccaagag 60
tgaaggtgtg catgcttggt gatgccagc atgttgagga ggccgagaag atgggacttg 120
actacatgga tggtgaggct ctcaagaaaa tgaacaagaa caagaagctt gttaagaggc 180
ttgccaagaa gtaccatgct ttcttgcat cagaggccat catcaagcag attccccgtc 240

tccttgggtcc tgggtctcaac aaggcaggca agttcccgac cctgggttact caccaggaat 300
ccctcgaatc caaggtgaac gagactaagg caaccgtcaa gttccagctc aagaaagtcc 360
tttgcattggg cgtcgccgctc ggcaacttgg cgatggatga gaagcagatc cagcaagaca 420
tccagatgag cgtggaactt tcttgttt 448

<210> 55479
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F11

<400> 55479

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acgccgagat ggtctcggag ggcatacgt cgcggaagga taggacgggg tccagcagct 120
acgcgattgc caagttcgtg gaggacaagc acaaggccaa gctcccggcc aacttccgca 180
agcttctgaa cgttcagctc aagaagctcg tcgccggcgg caagctgacc aaggtgaaga 240
actcgtacaa gctgtcgtcc gccaccaagc cgaatcccaa gcccaaggcc gcccgaaga 300
agcccaagac cggcgctaag aagcccaagg ccgttgccaa gcccaaagct tagacccccg 360
ccaaggcgaa gcccgcaca aa 382

<210> 55480
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F2

<400> 55480

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tgtgctgct agcagccggt accttggtgc tatgcgttc tgtgacattg ctagcaaggc 120
tctgtatgag ctctacttca atatctacgt caatggtgat cttgcagtca aggatttcga 180
tctctccagt gcaactggat tcttgcccta tccttattac attgacttta tcgtcgatgt 240
gaaggatgag gggatactga aattggcgat tgggtggcta aagaagagtc gatctgatga 300
agtaagtggc atccttaatg cactggagat aatgaggatg aacaagacca gtggagggtat 360

ggatggagac ttcccaattg atctacacat ggaatatgtg gtgagtaagg ggattggaga 420
aatttgccgc ttccttgctc tgtgggttca tcttttggg gttgtt 466

<210> 55481
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-G1

<400> 55481

atcgcccacg cgttcgtaga gatgcaagag ccggtttccc tgacctttgc cctaaggtag 60
atgaactcgt tcacgagagg cgtcttcact gtccgagcaa gtcacgatca gcctgtcgtc 120
cgagctacca gtggtgggctg agtacaagat cgctgagatg ggttacatta gattttacct 180
ggcgccaaag atcgaggacg atgaggagat gaagccatga ttgccatcag tgctcgtgct 240
gccgactttt tctcgtcttc catccatggg ttgcttatta gctattattt gcacgcaaag 300
gaaaaaaaaag atgttatgtt ttatatctta ggccagactg ctttagctac ttatttgtga 360
ctgctgtgtg tccatggatt tatagtgaat ctagattagt gggcttgtgc tttgtgcatg 420
ccgctgctgt ctgcccattt tctattcaga catgaaattc tttgt 465

<210> 55482
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H2

<400> 55482

tcgtgagcgg acgccttttt gccattaaca ccccaagtt cgacgtggag caaaagtagg 60
gcttctacac ctgggtggag atctactgcg ccccaagcc tgcgctgctg ctgtccaccg 120
ttagcacgct ctacactcta tggctcgaca tccatcagtg catcttcagc ttcttcaacc 180
acttccgcat gcacacctac tgctcctaga tgcatatgga aatgatcagc gccgactcga 240
taaagcaaga gctgttcaag aacgcttgct atagcggatg ctgcttgtag aggggcatgt 300
catcatcgca tgggaggaac aataagaaga ggcagcaata aattaatctt aaac 354

<210> 55483
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-A2

<400> 55483

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gacaggcgct tcttctggag atgggtttga tggtatgact ctagccacag atcagcctgc 120
tggtaccagt tcagcaacgc ctaaggtacc taatgccaga gatgatgata agttcaatga 180
tggtcatgtac gaagacttgt gtgtagatga tgctgacctt acattcgagg attatgaaga 240
gctatttggc acctctcaca ttcgaacaga ggaactcttt gatgacgctg gaattgactg 300
ttacttcgaa ttgaaagaga caccaccttt tta 333

<210> 55484
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-A9

<400> 55484

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aggtctttgt cggtagagcc aaaggatggt ctctgatgaa cttgaaccaa agctggagga 120
tgcttataac ggggagacgt ctacctgata agtaaaagt atcagcatct tgatgccaac 180
tgccccctat catggttttt attggccctt tgcttgattc tcatttcctt ttggagccag 240
tttcttctgt tattgcgagg tcacacaagc cttatttgta gta 283

<210> 55485
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-026-Q1-K1-B1

<400> 55485

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gacgtgctga ctgacaactc gtcgatcggg gcgccgtctc cctcgggatc gtcgatcggg 120
 gagaactcgt cgtcggaggc cggcgggggac gacggggagg aggaggtcga gagcaagctc 180
 aaggaggggtg atgtgctcgg ctgcttggaac gcgctcgagg actccttgcc gatcaagaag 240
 ggctctctga gcttctactc cggcaagtct aagtcgttca ccagcctcgc cgaggccaca 300
 gcggcggcgg cggcgggtcaa ggaagtgtg gccaaagccgg agaagccctt caacaagcgc 360
 cgtcgcatcc tggccaactg gtccaagaga gcctnctgca gctcgtctggc cacggccacc 420
 t 421

<210> 55486
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-B10

<400> 55486

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 acctgtagcc atggacgcca gcggagccgg tagcaagggg aagaaggggtg cggccgggcg 120
 caaggcaggc ggccccagga agaagtcggg gacgcgggtcc gtcaaggccg ggctgcagtt 180
 ccccgtcggc cggatcgggc gctacctgaa gaagggccgg tacgcgcagc gcgtgggcac 240
 tggcgcccc gtctacctcg ccgccgtcct ggagtacctc gccgccgagg ttctggagtt 300
 ggcagggaac gcggcgaaag acaacaagaa gacgcgcatc atcccgcgcc acgtgctcct 360
 ggcgatccgc aacgactagg aagctcggga 390

<210> 55487
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-B2

<400> 55487

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 gagaacacgt cgacggacgc cggcaggcac gacagagagg aggaagacga gagcaagctc 180

aaagaggacg atccgctcgg ctacaaggac gcgcccagg acaccttgcc gatcaagaac 240
 ggactctcga gctactacac ccgcaagtct aaggcgggca ccagcctcaa cgaggccaca 300

<210> 55488
 <211> 195
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H11

<400> 55488

gaatccaccg gatcgaccga cgctaacgac cactcgtacg ctgaacatga gttttccctc 60
 tcaattcaca aacatttcta catgagaaca gttgacattg gacaattccc gggcgatcct 120
 gaacacaaat aagctatact cctacaaact aaccaagacc acaacaaca aaactactct 180
 gacatttacc aacac 195

<210> 55489
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-F5

<400> 55489

aaaaaataaa aaaaaaaaaa aaaaaaaagg aaagtgttaa aaaaaaaaaa agggaaagaa 60
 aaaaaaaaaa aaacaaaaaa aaatacaaaa taataaaacc taaaaaaaaa aaataaaaaa 120
 taaaaaa 127

<210> 55490
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-F9

<400> 55490

ttcccgaacc agaccacgc ttccgcccac acgtcctctg actcttgta aaaattataa 60
 acccaaaca acatataaaa gataaagtaa aaataaaaac agatcacagc aaaactaaat 120
 aacacatcaa aaaaaaaacc aataaaaaca aaaaatctat aatataaaat aaacctata 180

tcaaaaccct cacaaaaaca tcctacaact tacttccaaa aacttttcac taataaacia 240
aatattacct attcccatct tacactatta aa 272

<210> 55491
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G10

<400> 55491

attcccggt cgaccgcact catacgccca ctgctcctcc cactcgtcct aatagtattt 60
tgctaaaaaa aaaaaaaaaa gaaaaaagta aaatttaaaa aaaaaagaag gaatataaaa 120
aaacacccac tcttaacttt ctcaacttac atacacatcc attctacatc actaccacat 180
tttatatttt cacctaaatt caataacctg ccctccaaat aacatctatc tatccatgaa 240
aacccatcca caaccaaacc aaatcacctt ccactacatt ccccttcttc caactagctt 300
atcaccttat 310

<210> 55492
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G2

<400> 55492

atttccaatc gacccacgca tcactcaaaa taacatcctt ccttccaaaa aaattttaca 60
ataaaaaact acaatacata aaacagctaa agttaaaatt ataacatcat cacggtactc 120
caaatacaat tatacaataa acccctacta cacttggtca attatacctc ttctcatata 180
ccatacactc ttaccctcca ccattttcta ctccacaatc ttaattaaac tgctcaaatc 240
attattacta ttcccaatcg ataccaatc ctaccatta cataaatttc cttttccac 300
attatatttt ttcaaaaatt tctatctctt acattctttc ttcttataaa ttcattctac 360
ata 363

<210> 55493
<211> 193
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G3

<400> 55493

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aatccttctc agcacaatat ccaaggggtc aggccaaaat tcaaaccgaa gaacgctgta 120

cacatctctc accgacaaca tctttacggt gaccgcacaa gatactatag ccaactccag 180

gaaattcacc aaa 193

<210> 55494

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-025-Q1-K1-G4

<400> 55494

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gccnaagaag atattcatat cgggtttggc aaactattat ccatataacc tgccaaagtt 120

tctgtccact aaaaacactc tcacttcact attgctcgaa tccagattct catagcatgc 180

ttctctaacg actaatgcat gcacacttat tcctctataa tctatatgga tatcttcac 240

accaactcac taaatcttta gcttatcaag aacgctttct tagaatgaat ctacttacat 300

agcggcatct catcatgaca tggtaaataa gaaaaagaag catctgtttt catttaacct 360

acagcaactt attgatcatc aacacaagtc tcactt 396

<210> 55495

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G9

<400> 55495

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ataaaaaaaaa aaaaaaaaaa agaataagtt aaatttaaaa aaaaaaaaaat gccataaaaa 120

aaaaaaaaat aacatattct tacaaataat atttccacc ttttattttt taaaattact 180

aattcttctt actttctttt tatttttcaa ctctttctta ccattcttct cttttttaat 240
 tttatttttt atctcattat attccatttt cttttttttt ttcttt 286

<210> 55496
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-H10
 <400> 55496

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 cgatctcgat ggccaaccct cgcgtctgct tcgggatgac cgtcggcggc gcccgggctg 120
 gccggatcgt gatggagctg tacgccaacg aggtgcccaa gaccgcggag aacttccgcg 180
 cgctgtgcac gggcgagaag ggcgtgggca agtccgggaa gccgctccac tacaagggt 240
 ccaccttcca ccgcgtcatc cccgagttca tgtgccaggg cggcgacttc acccgcgga 300
 acggcaccgg cggcgagtcc atctacggcg agaagttccc cgacgagaag ttcgtgcga 360
 agcacaccgt ccccggtgtg ctctccatgg ccaacgcc 398

<210> 55497
 <211> 218
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-D7
 <400> 55497

aaaaaaaaa tttaaaattt aaaaaaaata aaaaaaaaaa aaagaaaaag tttaaattta 60
 aaaaagataa aagggcattc attcttataa ttctatactt actaacactt tctttcaatt 120
 tcatatctct tctatattca cacttaaatt caattctctt ttccttattt ttacaacttt 180
 cttaactttt taaaactcct tttctttttac tcaaattt 218

<210> 55498
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-E10

<400> 55498
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taatagaagg aaacggaatg gctgagcgcc tattcctaata ctctgtcgaa gaacactacg 120
aaacttttttc gccaatactc gagaaagggtg cttagcgctact cactgtcgaa cttctactga 180
accgcatatc catatataaa cttgagttcg agatgcaacc ctttttcatt gaccgagtca 240
aacagacccg ttctgtctcgc ttgttgaatg aactgtgtca tggccgggtt gtacatgtac 300
ccaaccgtac atcagcctat tcagttcaag accaatgtat atg 343

<210> 55499
<211> 340
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-F1

<400> 55499
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tatttttttt ttttttttta ttattttttt attttttttt tttttatttt tttttatttt 180
ttttttattt tttttttttt ttttttttat attattttta tttttttttt ttttttttat 240
ttttatattt ttttttttatt ttaatttttt ttttttttat ttctttttat tttttatttt 300
atttttcttt tttttttttt tatttttttat tttatttttt 340

<210> 55500
<211> 382
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-025-Q1-K1-F11

<400> 55500
atccccctggt cggccgactc atactgcttc tactctatct cgactcattt ttctgtctct 60
antctccacc ccttctcteta gcaatagtag cttctcaacc cggcaaatga tctcactaat 120
tatgattcta ttgctaattc aactttattc tattgtctcat ttttaggatg tactctcttg 180

attccctact aatgtttttt ctattttccc taaacatgat ttctcaatca ctatcaatgt 240
gacatgaaac gaagcttcta catctttgat ttccaatata gttaatccta tttttattaa 300
acatccatct ctctcttcat tataaattca ttataagttt tattatcatt ttacattcac 360
ttttatcatt ttacaatttc tt 382

<210> 55501
<211> 334
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-F12
<400> 55501

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ggctttcaga gctcgcaact ggcaattcgc atctgcttat atttgatatg cagcaagcct 120
gactatcaca aacatgtgag gaatgccgtt gtaaatacgc tgaaggagtt catgatacac 180
tataaagggtt atgttccaat ctaataataac gtacacttgc agaaaactaa aaggcctgag 240
gaaatcggat accatgttac cttacatgca tgttcagaca ggtagctgc taaaatctat 300
ttgttgacta tctttcacat acacatgcct attt 334

<210> 55502
<211> 286
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-C1
<400> 55502

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aattatcaaa tcgagatggc gcccatcaaa ttttcaatac ctttacttct ttctcttct 120
tttcttttcc acttactacc acttccttca caacaccttc aacatttact actaattcct 180
ctattccaat atcatccttt atctatatac tcatattttc ctcttcttct acttcttcac 240
cttctccact ttatatacta ttccttaact ccattcattt cattaa 286

<210> 55503
<211> 319
<212> DNA

gaagccggaa aacgtctaac agtttcaaga agaattctgc cttatgggtct gtaccacatg 300
 tttttgctgc tacgcaagta aagaactcca cgtctgtcaa tgtagttttt acaacatcgt 360
 ctacggacaa aaaaaaaacc ccccgctatt tgattgggtgc taaacc 406

<210> 55506
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-D11
 <400> 55506

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 cacacaacga tttgggtatgt tacaagatgc gtgacggctc ctatatttca cctgatgaac 120
 aacatcttat taagcacccc actctatctt actatattac aatatgacgac cagcatataa 180
 tggaatctgt aatagatcaa accctaactc ctttttctgc tttacagacc aatacacact 240
 atcatcagtg atttcttgca aactctattc atcaaaatat atcttctcta gaa 293

<210> 55507
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-024-Q1-K1-H2
 <400> 55507

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 acacatgcgc agctttgatc ctccatacgc tcataatgat gttaagcctg gtaatgttct 120
 tataacctgg cgtaaaggac aagcacctgt tgcaacttta atggattttg gaagtgcaag 180
 gcctgcaaga aaggaaatcc gttctcgttc tgaggcacta cagttgcagg aatgggcccgc 240
 tgagcattgc tctgctcctt accgggcccc tgaattatgg gactgcccga gccatgccga 300
 tattgatgag aggacagaca tctgggtctt aggatgcact ctntttgcta tcatgtacaa 360
 tgtttcacca tttgagtatg ctct 384

<210> 55508
 <211> 396

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-024-Q1-K1-H4
 <400> 55508

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 tttcttcaat tcgagaggga agtgaggcat gccctttaat tgnngccggg ccattngnna 120
 tgatcatgan ncatgcatac gagtcctnnt gaatttctga agnntctgat ccgagttgta 180
 gaatgcctcn ntttatgatt tgcaaaagtg aagggttgat tgtggccaag gtttttttag 240
 gattcaaggg ctgannaatt gatttcaatg gagttagttc tggtagataa attatttttg 300
 aaaaggaccc tggacgtggg agttggggcc aaaaccagc tccgggaaag cttgcaatgt 360
 cccaagggat gatacccgga attgctaaag ggtcat 396

<210> 55509
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-B11
 <400> 55509

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 cggcgcccta gcacctttaa ccgcaggaaa tcagattcac tagtgaacga gtacaggcac 180
 tcgatggcgc tatcgctgga gaaggacaag tattacacaa cgaggggttc accgttcgat 240
 ggaaacgggt tcgacttttg tagcatagct gacgagaagg gaaccaccgc gttgcctaga 300
 ttcttcgtag cattgtcgaa caaggagaag gaggaggact tcatggcaat gaagggtgc 360
 aagctgccac agaggccaaa gaagcggccc aagctgatgc ataagtgctt gcttatgggtg 420
 agcccatgag cttggttatc agatttctgc catgag 456

<210> 55510
 <211> 73
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-H12

<400> 55510

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gaggcaattt cca 73

<210> 55511

<211> 361

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-024-Q1-K1-E2

<400> 55511

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aatttcaaac agctggcact gaattcctgc aagcatgtac aacgcctaca gaaaattgag 180

ctgaacacaa cccacgccta catcggaag aatggcacia tggtcctga cccctgtgct 240

tcttagcttt atttatcaag acttcataaa ttcataaata cgcattctgc tatatatggt 300

tgtgaaacca gcatacacia tcacagatga cacatgcctc tcaagtcac atatttattc 360

g 361

<210> 55512

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-024-Q1-K1-E3

<400> 55512

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gcttgccggg gccaccagca acgagtcggt ggagaatgcc ttcgcctgct acggcgagat 120

cctcgactcc aaggatcat cgcaccggga gacggggagg tctcgcggct tcggttcgt 180

taccttctcc tccgagaact ccatgctcga cgctatcgag aacatgaacg gcaaggagct 240

cgacggccgt aacatcaccg ttaaccaggc ccagtcctgt ggcggtggcg gtggcgggcg 300

<223> unsure at all n locations
<223> Clone ID: LIB3088-024-Q1-K1-F2

<400> 55515

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cccgggtggag cagcttccaa gccaccacgg cgcccgcgtc gccacgtac aacctcgtcc 120
accggcctn cgactccatg gagctggacg ggacgacggc agccgtcgag gagttcgagt 180
tcgacaaggg ccgcgtcgtc acgccatggg aaggcgagcg gatccacgag gtggccgccg 240
aggagctcga gctcacgctc ggcgtcngcg ccaagtgaag cgaagctctc aagcaaagct 300
cggatctttg agtcccgtta ctgcaaatgc cgcgattggc agaaaaaaaa atgtgtacgt 360
act 363

<210> 55516
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-F4

<400> 55516

cgcgctccgcc cacgcgtgcg ggtacaccga ccgagctcag cttacctcca ctccagctac 60
aatcacagtc gttaccagag cgagagcgag ctatatggcc gtgaaaatgc ccatcaataa 120
gatcgccctg gggagccacc agtaggtgta ccacccggtc gccctcaatg cggcgttcgc 180
tgagttcatc tgcaccctca tcttcgtctt cgccggccag ggctccggca tggccttcag 240
tgagtcctac gctgtccgct cctacccatg tgcattgaac acaggctcga tcggccctcg 300
tctgccttc aacgagcagc tagctagtta gcctgcctg tacacggcac gccccatcaa 360
cagctttacg actttctcta agctggtctt taaacatttt gtttaaaaca tgctctagta 420
tctctttgag cttcacttgg tctgtcatgc tctagcacta gcacaagg 468

<210> 55517
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-G4

<400> 55517

acgcgtccgg ccccgacgcc gaggtgctcg acgcgatcga cacggcagcg cgccagaagc 60
 agctgaaggt ggtggcgaag ctctactggg gcgacgccag ggagaagctc tgcgacgccg 120
 tcgaggacct caagatcgat tccctcgtca tgggtagtcg cggcctcggc ccgatccaga 180
 ggattctcct gggaagcgtg acaaactacg tgctgtcaaa cgcacgtgc ccggtgacag 240
 tcgtcaaggg gaagtagcgg cctggacagc gtgccagtga tatgaatgaa gatgctagcg 300
 tgcagtttgt gtgggttata gctaaacact atgttccgtc ttgttgctgc atttcaataa 360
 agcatgtgtc t 371

<210> 55518
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-024-Q1-K1-H1
 <400> 55518

acgcgtccgg gcgattccta acgacgtcca actcggctag ctgctgtctg gcgtcaccat 60
 cgcgcacggc ggtgtcctcc gcaacatcga cccgtttctc ctgcccaga aggttgcgga 120
 gaatgcgtcc agcggcagca gctacgagag caagtcccct aagaaggccg tcaagtcccc 180
 aaagaaggca gccatgtccc cgaagaaggc ttagaaatca ctcaactcac tagcgtctg 240
 ctgtagcatg ttcgtgtcta gatctgtgga acttatgtgt gccagcctaa ttacctatct 300
 gccttgtagc tctgatatg ttcactggca tgtagccga gttgtgatcc gtggactgat 360
 tttgcaaata atcatc 376

<210> 55519
 <211> 294
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-024-Q1-K1-E11
 <400> 55519

cctttggagg cagcattct accactcgtt cgctctcttt cttccgtttc ttatatcctt 60
 cctcagattg gcatttctgg ccatcttata ggcgaccaga gctcccagtt caatgaagca 120
 ttcactctct tcgacaagga ctgctactgc ttcataacca ccaatgaact tttaactgtg 180

attctctcgt ttgggcataa ccctactgat gcttatcttc atgacatgat caacgaggtt 240
 gatgcttatt gcaattgaac catctacttc cctgagtttc ttaaccttat tgca 294

<210> 55520
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-H10

<400> 55520

acccacgcgt gcgaccggaa cgcacacac catcatgctg ttatggcatt gatggattct 60
 at 62

<210> 55521
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-C1

<400> 55521

cgcacgcgtc cgagcatttg cacgcttgat catagaaaat cttacactgt ttcctccaat 60
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 tttaacagat attgcccgtg ctgattactt tgagcctatt aggaccttcg atgagtcttg 180
 catggctgac tttttcaaaa aaacgacctc tttatctcag cacctggtat acaatcctaa 240
 agaggtatga cggcagagag ggatcatcat gctttgatct ttaagaattc ttttgttagc 300
 tcaaagacta caaaggacce ttctctatga tgtatattgt atgctctctg aaatttgaag 360
 aattctgtat gaaactttgg ttgccttgag cattattgta tagcgcccga tagggcgcta 420
 ctgtttctag gttaaatt 438

<210> 55522
 <211> 333
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-024-Q1-K1-C3

<400> 55522

acgcgtccgc tgcaactggg cgcaacagcc gatacactag ctgaccgacc tgctcggaca 60

cgcacacgac gcatcaccac cgaggatggc agcttcataa tcatgacgag cagcacta 120

ccctgtaact acgactcaag gcccagcatg ctgcctcaa aacaatgggt cccactcgct 180

aaccaggcca acctactatg ccaagaacca cgactgtccc tagcggagaa tctnagtaga 240

ccgtagacgc actactaatg acaacaacta ctaccactgc acaaccacat cactatgtac 300

tcgatgccat gcgctctcta cttttccacg cta 333

<210> 55523

<211> 389

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-024-Q1-K1-C4

<400> 55523

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cagatccatc gaaccacgaa caggaaggaa ggtangaagc ctgaggggct gggctgaagt 120

tgaaccatga gtgccgtcgc ggtttcgctg tcgctgaacc cgaacgcgcc gctcttcac 180

ccggcgggcg tgctgcaggt ggaggacttc tcgccgcagt ggtgggacct catcaccacc 240

accgnetggg tccgcgacca ctgggtccgc gagcacgccc acctggatga gatagccgag 300

cagctcgagt tggtcgccct tcttgccctac gatgaggatg aggacctctt ctacggcgag 360

caggccccctc ggcggcgggcg ggcgcctta 389

<210> 55524

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-C5

<400> 55524

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aaccgtcaga tcaaccgtag caacacacaa ttatcatcta tcaattgatg ccctcctccc 120

cgtaccaaga actgtacagt atctttgtgc gccctcgttg gccggagggtc taagctaaat 180

atgataatat tttctttgtg tatatatata tttcttggtg gctctgggtg atgtgtgttc 240
 tgtctgtgga agggctaaaa cacccatctg cagatggacg taatataacg tgctgttatt 300
 attctatgga tggattgaat aaaatagcct aacaatgctt ctcc 344

<210> 55525
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-024-Q1-K1-D1
 <400> 55525

gcgtccggtt acgaacatga gaattaatgc cgctaaactc ctgcaatcac tcgtaccaat 60
 cttttgtcaa tctgtagtgg agaagagagt gaaaccatgc gtagttgagc tcagtggagga 120
 cccagatgta gatgcaagat actaccacaca ccaagcccta catgcatgtg accaaatcga 180
 gatatctagt cgactagcct gtccaggaat taacaaatga gatacatatt ggtctattct 240
 atttgaacat tttaaagagt catgtagtct taaaaatatt gaaccaccaa aggacgtaat 300
 gcatc 305

<210> 55526
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-024-Q1-K1-D2
 <400> 55526

gcgtccgcgg acgcgtgggc cttagacagg gggcatattg accccatttg taagagtttg 60
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 agctggatct ctctgggtcta tggcactttc atgctataca tacgcgggtct atctctgcat 180
 taccattgca aatctacgct taatcaaagc tctggtggtt atagagcacc tcaacaagct 240
 gcaagtgtc tagtagtccc acccaccact gtccatccac agccacacca ctctgtgcgc 300
 gggggcgtgc gttttcgact tttccacgcc acggtgtatg cgtacaaatg cgagtagtgt 360
 agcatcatca tcatcttgtc tcgagtgtga tttctgtggg gtt 403

<210> 55527
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-D3

 <400> 55527

 ggaagcatgt agtgattttg aaactactgt tcttgctcaa aaaaaaaaaa tattcatcag 60
 aaaaacttca aaaatcggaa gcgacaatac aaactaaacg actcaacaag aaaaaacaaa 120
 aatcacttac aaaaatgaca ctt 143

<210> 55528
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-D6

 <400> 55528

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 gtggcttgta agataaactg aacaagaaaa tttaaaagta atgtgccgta tgaatcgctg 120
 cttgatgcta gatccaactg ttcaaggata tatatagtga tggttctctg tggattactt 180
 tccccttgta aatatcttga gctattgaaa gggtattagg ttacagggct ggtgtgttca 240
 tgttaagttt catgattatg atgtcttgta tgtgtgttaa tgtccattta agtgtctgga 300
 aatagtttat aaaacgtgat tggaaatata acacataaag aaaacattgg tatgaccttc 360
 t 361

<210> 55529
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-E1

 <400> 55529

 acgcgtccgg atggctacgt cctcccgaag ctgtacgcca aggtgcacca ctgcgtctcg 60
 tgcgcgagcc acgctcacat cgtccgcgtg cgatcccgtg agaagcgcag ggaccgcaag 120
 ccgccggagc gcttcaggcg cagggaggat aggctgctg gtggacaagg agggccccgc 180

cctggtcctg gtgctgctgc tacagctcca tctccagcac cggttgctgc tcgcccatag 240
gctttagctt ttcgaccgtg ttaagtcttc tgcccactca gtttcggagt tgtcccctgt 300
gcgtgtgtga agctgctata ttagagttac tttttgtcta aagtctgaac attttcgaag 360
aatttgaata tctgaacatt tgaatgtttg tgctgagttt ttcaaagaat ttgaatatct 420
gaacaattga atatctcact tgaacgtt 448

<210> 55530
<211> 183
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-G5

<400> 55530
tttttcaata actacatccc ccacatgctc ggtttaaaaa agaagagggg ccccccaac 60
aaccccaanc ccaacatcac tttcctccag acccatacct tctaacaact atatctcccc 120
ggagtgcctt acattttattc tttcttcaat gccaccaaca cccataccaa tttttccacc 180
aac 183

<210> 55531
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-G7

<400> 55531
atccaaagcc aacattggtg gattgatgag ctttagtgga gcgccagcct gcggcttcca 60
caacgatgtc aaccccgatg acagcttcat gagcctgatg ctgaaggccc agagaccggg 120
cgaaaccgat ggcagcggtc tcctccatga tgccgtcgct catcactccg atgagagcgc 180
gcggttcatg gcgtaccacc tgacagagtt tgggaggtat gggaacaacg tctcactgac 240
tctgggggttg cagcacgccg agaacacca gccaggcttc ccctgcgtca gagaccaaga 300
catctacaac 310

<210> 55532

<211> 136
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-023-Q1-K1-H4

 <400> 55532

 ctgctcgcgc ggcgcttggc ggcgggcgcg gcccgctgct gggcggggtgg aacccgatcc 60
 ctgacgtgag cgactcgcac attcaagagc taggcgggtg ggcgcttggg caggcgaagc 120
 accaaaagct ggccgc 136

<210> 55533
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-H6

 <400> 55533

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 actttgtacc tgtctcacag cgtacagaan atnagtctgg cgctgagcag agagaatcca 120
 gcagcgtact tgtagacagg acatctggga taaaaatgc ggctgagaag cccacgata 180
 ccaaggtgat caagcctcag gatccgtgcg tctccgaaga gcangctagc gaggccgaga 240
 aagagaatgg acctcaggga tgtccttgca gcggcaatca gggccaagag gaggcagcga 300
 aaactgcaac taaccacccg ccagct 326

<210> 55534
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-A2

 <400> 55534

 gaaggccaaa gctgatgttc gggaggggaga tgaagcagaa ggttctaaca agtcaaagtg 60
 tgaggttgag gatgatgagg aggatggtaa tgaggacgag gatgagtaaa tagtacgatg 120
 gggaacagca gctttgcaat tgagtgtttg ctgctttact tatttttcta tatgctgttc 180
 cttttgatgt tatatgctgt aaggaaaatc tgtacatgat ggtaccttag ggtatggcat 240

gctggagttc ccctttaacc cgaagagccg gatacttttg ccagcctcgt cagcatgtgt 300
 aaacagttgg tttcttggtt tatcgactaa ttgggtgact acccaagagt tggtttgtaa 360
 tcaatgaggt atgc 374

<210> 55535
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-A4

<400> 55535

gaccaccaag tactactgca cggtcattga tgcccctgga caccgtgact tcatcaagag 60
 catgatcact ggtacotccg aggctgactg tgctgtcctt atcattgact ccaccactgg 120
 tggttttgag gctggatatct ccaaggatgg ccagaccctg gaacatgctc tccttgcggt 180
 cacccttgga gtgaagcaga tgatttgctg ctgcaacaag atggatgcaa cactcccaa 240
 atactccaag gcacgttatg aagagattgt gaaggaagtc tcctcctacc tcaagaaagt 300
 tgggtacaac cctgataaga ttgcctttgt tcccatttct ggttttgagg gcgacaacat 360
 gattgagagg tccaccaacc ttgactggta caaaggccca accctgcttg aggtccttga 420
 ccagatcact g 431

<210> 55536
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-A5

<400> 55536

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 gatgatgatg attacgattc aaagaagacc aagggaactg ctggagggga agggcagcag 120
 ggcgaacgac ctgcagagtg caagcagcag tgagggtgctg cacaatgaat gttggcgggc 180
 attggttggt gagcaattag ttaggttctg cttgatgcgc aagggtcattg agttggtttg 240
 tggaacctta tagggggcgc ttgatggttt tatggaattg gttggagaat ttttctggga 300
 catggcggtta tatcattata tgtgggtaga ttcttcactt actgaattgc gtttcagata 360

ttatatatgt ggtcttatgc tt

382

<210> 55537
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-A9

<400> 55537

atattatata gcatatttgt gtatttatta tagacagtta ctattttaca acttggttaga 60
caatttttta gtataaagat tcttctttca cataatcatt tataattttt ttcttaattt 120
aattttatct cctccttttc tttatttttt tttccttta attattattt tattttactc 180
atttatttta taaatctttt atatttaatt ttttatttta t 221

<210> 55538
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B10

<400> 55538

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gcgtggagga ggctctgctg cacgaagtgg agaggaagca gcagcagcag cttggagctg 120
ggagcgccgc ccctggtttt ccaggcccgt catcgacgt gcaaaacgtg ttttgacacg 180
cgaagaaaca tgaacccga gctcatttc ttgattcttt ttttttaaga accggatgcg 240
caaacgagc atccgcgtct ctggctctat tgatttggtt ttaatagaaa tcggtcttgt 300
ttgtgtaaaa aaaaaattta atatttatta at 332

<210> 55539
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-D3

<400> 55539

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 ttcgcaagta ccagaagagc acggagctgc tcatccgcaa gctgcccttc cagcgctcg 120
 tccgtgagat cgcgcaggat ttcaagaccg acctccgctt ccagtcctcc gctgtcgccg 180
 cgctgcagga ggccgcccag gcctacctcg tggggctctt cgaggacacc aacctctgcg 240
 ccatccacgc caagcgcgtc accatcatgc ccaaggacat ccagctcgcg cgccgcatca 300
 ggggcgagag ggcttgatc 319

<210> 55540
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-D5
 <400> 55540

atacaactca aattcnacaa aaattttttt tttttaaaaa aaacaaaaaa aaaacaccgc 60
 cccgttttta tttaaaaagt tggccaaccc caaaaaaaan ccnnnccntt ttatantatc 120
 caatcttact tactctttca tccaacttca tacctttttt attntatcac tttttttttt 180
 ttcatttccc ttcataattac aactttttta cttttaaaac cctcccttta cccaatttaa 240
 tcccttntca acacatcccc ttttctc 267

<210> 55541
 <211> 327
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-E1
 <400> 55541

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 ggttgagggt gttactggat attcttcaaa tgatatcaac aagttcttat ggatggtacg 120
 tattggtgga ggagtttttt ctgtaatcaa agagccagat taccttggtta atggggagta 180
 tcgtattgac aagggtggcag caccctaaat gctgaactgc ctaatgtaca agctttgtta 240
 ctaccgattt ggagaactta ccacagaata tggaaaacct ncatggtatg atcgtgtacg 300

aggagtggag attggcaaca aagacat

327

<210> 55542
<211> 296
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-E11

<400> 55542

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cgttgaaccg gctacggaag ggatcgtgat ctgtccaaaa aattttggag caccaaggcc 120
cctgggcagc agccatttca tttcagcatt ggtcagggtc agtgatcaaa agatgngacg 180
agggagttat gaccatgcaa gtgggtgaag ttgctcgtat ccagtgcacg cctgattatg 240
cttatggagc cggcgggttc ccaacctggg gaattcaacc aaactcagtg cttgtg 296

<210> 55543
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-E12

<400> 55543

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cattggtttt ccaaagatac aatggcgtgc tcttgatgag atcaatgctg gggctctgtga 120
tgggatgaca tacgatgaaa taaagaaaag tcaacctgaa gaatatgaac cacagc 176

<210> 55544
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-D2

<400> 55544

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gacgtgtccg tattgaatct aaggggcggc aaaagaagct ntatgaggtt gggactgtga 120

cagcaatttg tggtacctgc ttcttgataa gatgtgttgt gggtgcatta tctgcgtttg 180
atgccgatgt atctctcgag gttttggacc atccagtcct agatttcttc tattatatgc 240
ttgcggagat actgccttct gcgctagatc tcttcgtact tcggaagctt cctccaagcg 300
ggttttcgca caataccacc cctanaacta gagagttttt ttaatgatgt acatgct 357

<210> 55545
<211> 349
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-F9
<400> 55545

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agacctcaac gagccaagtt tgccaaacca ggcaacttgg cnaatccaaa gccaacattg 120
gtggattgat gagcttttagt ggagcgccag cctgcggctt ccacaacgat gtcaacccccg 180
atgacagctt catgagcctg atgctgaagg cccagagacc gggcgaaacc gatggcagcg 240
gtctctcca tgatgccgtc gctcatcact ccgatgagag cgcgcggttc atggcgtacc 300
acctgacaga gtttgggagg tatgggaaca acgtctcact gactcttgg 349

<210> 55546
<211> 490
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-023-Q1-K1-B1
<400> 55546

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gagaacttcg actgcgggcg cgggattatc agcatgaacc tggacctgaa aaagggcggc 120
aacaggttca tcaagaccgc cgcctacggc cacttcggcc gtgacgacgc cgacttcacc 180
tgaggaggtt tgaagccct caagtctgac aaggcatcgg cttaagggtt ggagtgttca 240
ctgtggacat gaggactacc ttctcttggc tctgctgtta cctgcaagca ttgctgctgc 300
tggatgtgtg tgtttgatca gtgactggct gctgctccat aaaagatgaa cggagagaag 360
gatgattaag aagggctttg gcaatcgccg ctgcaactgc aacccatgcc atgccggctt 420

agtgattggg tataatTTTtg cTTtgcaagc accagcatta ttatgtgctg atctTTTtatc 480
 tttactagtt 490

<210> 55547
 <211> 269
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-B9

<400> 55547

aaacctgtga atatgtttcc aaatcgTtct gTTtaatctg cctgtcaagt gctantagtg 60
 tgcgtgttat taccagtgcg gagggcggcg ttaaattTgc gTTTtgctac ctcttctcga 120
 gaataaacat agttgacatt actcggtca aaaagTtcag atcgactcaa ttgttgTtgc 180
 tttttttttt ttgccttgat ttttcatctc gctcagctcg agtgagcacg ttctattgtt 240
 aggttgccTc atcttggtta tcaccggac 269

<210> 55548
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-C3

<400> 55548

catatanntt taacnTTTtg acnnaaggat gtnntatgag cntnntggat gnnnaaatga 60
 aagggannta atttcttaga gngnntccac ccanacaaat tcttcacttt gtgatgaaca 120
 cannagcatg gtcattttatc tttcacnaag aagggcnnct ttatttttca ttatttanna 180
 tttcaatcct caagtcttcc cattccgtcg tatttcgtgt tgggtgtggat gaaagctggg 240
 gaataaccaa ctcatcttca acacagatga aactaaatat ggtggatgtg aaaccctcaa 300
 gagtagtcag tatatg 316

<210> 55549
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-C4

<400> 55549

cccacgcgtc cgcacgtga aatagctaag aaaccaaagg tccagtcacc ancagaggaa 60
atgttctgca gcgagaacaa gtctccagca aagcaagtgt ttgggggatca gaacaaatcg 120
tcatcaaacc aaatTTTTTgg agatgaaaac aaggagccgt cggcatgggg tgctatagag 180
actcccatgt gcgatgttag agtgactgac agcccactgt cttctcagct ttctccaatc 240
gtatgccaag ttgtggctgc accattatca gaggaactga atacatgcag tgcagtggaa 300
ggaagtgatc ctagcaagga gaagaacagt cttgctggac agaaagatgg cggccgcctc 360
ttggagttta cataaaatgg gagtctgc 388

<210> 55550
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-C5

<400> 55550

aaaaaaaaata caaataataa aattatttaa aaaaaaaaaat aaaaaataaa aaaaaaggga 60
gaggttatTTT aaaaagagcg ggtatgcaaa aaaaaaatat atttaaaaat aataaaaaaa 120
aaaaaggggc gcccgTTTTa tagatttcaa gtttacgaac ccgtccattc aatttaatat 180
cttttttttg atgtcccata atttaatttc tgtgcccta ttttaaaaac atcttaattg 240
aaaaaaacttt gaagttacca atttaatttt cttagaagaa cttcctttt 289

<210> 55551
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-C7

<400> 55551

attcactgtg agactgatga gacattaaac tgctgtttcc tcaactctac atttctgaag 60
agaactatcg ggtgcacgc cttcgatcgc taccattgtg ttttatgggt caacaagatg 120

tgatgcccac aagcttttcc ttggacaatg ctgcagcctg cagcttctaa cctgtagaac 180
 caacatagtc aggttttcacc gaacctactc actcttggtt ccaccaggcc aactcaactc 240
 tgaatgaccg cttgaagagt ccaagtctta cttcagctta agaatctaaa actcggttag 300
 tctctcggcc tttttcgtat tat 323

<210> 55552
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-D1
 <400> 55552

aaaacttcaa tttcctatct caagttatga ctattccttc caattanctg atcggggtta 60
 aatactggtg ggcaaagttt ttcataaaca tatatttaac ttnacaagg atgttatgag 120
 cttggatgaa aatgaaagga taatttctag aggtccaccc aacattcttc actgtgatga 180
 cacaagcatg gtcatatctt tcacaagagg gcctttatct ttcataatta atttcaatcc 240
 tcaaactctc catccgtcgt atcgtggttg tgttgatgaa gctggggaat accaactcat 300
 cttcaacaca gattaaacta aatatggttg atgtgaaacc cttaaaaata atcaata 357

<210> 55553
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-G2
 <400> 55553

cggttcgaat tcgaggcagc ggccgctgag ctacaatatt tgtactacca tgctgtagct 60
 gttgcaagcg tcgacctaaa tgcgcaccgt ggtcttaacc ttgctggtca atgccgaact 120
 caagctctag ctgatggcgc tgatcctcaa catgcatact atactgaaga cttaaccaca 180
 tacactgcta gaatgagcta cagcagccc aactctggtg ttatatacac tgtgaccaac 240
 agagtactca acatcttctt ctacatacta caacctcgac gagtgcaacc tacacncgtc 300
 acacgagaac tgagacacag attgtcatcc aactggaaca ccatctcatt cgcgacgcac 360

catgccttta acgctttgac cactatgaag gctcgcttta tcgaccactg attggacagt 420
gcactgatcc aacacgagta gat 443

<210> 55554
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-022-Q1-K1-H10

<400> 55554

gnggagggga ggatcgcaaa actagctgca gacttttttg tttctccttg actgaagaga 60
tcttgccagc agatgatgat gacgtcaagg aagtgaagcta tgagactgag tgccagaacc 120
cacggatgct ggacctgttc ggggtacaact gctcaacacc gagtgccgct cttccagctc 180
tgtgtgctgc cgcccccttt ggaatgtgat gctgcttcga atctttcgat aactttgctc 240
catgtactct tagaagtttt actttcccag taccacagtg tagtcataag ctgcttttga 300
catcattccc tttgggtctgc ctcaagttaa gcaggcattt gcacaagtaa acgaaggttc 360
gttgggtgaac cactcctcga catgcc 386

<210> 55555
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-H6

<400> 55555

cccacgcgtc cgcccacgcy tcctcccact cgtccgcca cgcgtccgct taggcttagg 60
attatgcgaa ttcaggatcg gacagattag taatcattca gccaaactaa tcattctaac 120
aataaacttg aattcatcaa acaactcaat gaaaagctcc tactcaaagc atcatgtgat 180
aatctcctaa tacttgaagt atgtaactta cacttgacag aaatgtgatc atctga 236

<210> 55556
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-022-Q1-K1-D7

<400> 55556

cggacgcgtg ggggtgggagc acctcagcaa tcaagaagcc gttgagattg ttcacagcgg 60
tcaacgtgct ggaagcgcaa gaagactcat taaagccgct ctacaagaag cagcgcggaa 120
gcgtgagatg cgttactcgg atcttataaaa gatcgataag aaagttcgca ggcattttcca 180
tgatgacatt actgtcatcg tcttatttat aaactatgac ctattattga aagggtgctcc 240
gcagggacaa cccctctcca tcagatgtgc cctagattat tgacagtga ctagttcacc 300
cactggtatt caagctcctg cgggcagcca tatccagagt cagctgacat ggtcaaccgg 360
ttgtgaaaag cgcacaacct nccgcaccag tttccttttc gtttccccct ttttgacat 420
aaaattgaca agtcgc 436

<210> 55557

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-D8

<400> 55557

gaagaacgcg ccaaattatg cacataaatt taagctacac cgaaggcaaa aaaaacaacg 60
ggcaacttat tatgcgcacg cgaatactca gtaactctcg tctccatgac taccttctag 120
gccataataa tcattagttg gatctgactc aaatcctgct gaaagttcat ctgcatagtc 180
aatatcacat taatgcctta aacttataaa taaactatga cctattattg aaagggtgcta 240
cacatttaca acaccctctg catcacattt tacataaacc attgtcagtt acccatactc 300
tcccactgat attcaatgct atagcgtgac ctcatctcca tagacagatc acatgtttac 360
aacgttgtg 369

<210> 55558

<211> 304

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-022-Q1-K1-E10

<400> 55558

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 ctgaagagag ttgcggcttc agtgctaagc gagatgggtt tgaacggagc atccttatcc 120
 caagacctgg taaccgagat gtgccggcttc ggggggtgcgg agattcatcc agtggctgct 180
 ttcatcggtg gagtcgcttc acaagaagtg attaagctgg tcaccaagca gtttgggcct 240
 ttgggggggaa cattcatttt taatggaatc gatctcaaat ctcaagtttt ggtgctataa 300
 catg 304

<210> 55559
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-E2

<400> 55559

aaattgtcac aagctgactt catggcggtta aaattaatca cagaaacagg ataatcaaga 60
 actagatc 68

<210> 55560
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-F2

<400> 55560

ctcgtccgga accaataggg acgcttggtg aaaacatttg attagaaata agatcaaggg 60
 gtgacaggga tagttacaac gaacaggggc ttcaagcaga agagaaggat gttgtgtcat 120
 ctgtggccac agtgttatct gatctctgtg gccctggaga atggatgcc atggcaaaac 180
 tccacaacga gcttcttgag cagttctgca acatgtggca cccagcatt gtccggaagt 240
 acctgacaca tgacgactgg tcttcgacgg agactaatgg caggccttgt ttcggccttc 300
 tggcgcttct caggaagtac cctgagcact ttgtcatcaa cact 344

<210> 55561
 <211> 440
 <212> DNA
 <213> Zea mays

cagcggatat acttgatgat attatgtacg aagtatgctg caaattgcaa ccggtggcta 120
 ttgggacttt gagaagaaaag ctattacaaa ctacatgagg gcggtttgcg aatacaaaat 180
 tccaacaatt ttcctagctt aagagtcagt ttggatacca agggctaatac agtttcgtgc 240
 ttcataatth tttagaaaac acgactcaag tttcgtcaca taccctgtaa agctagtggc 300
 gctcctgctt ctttacacag accaatcatt cctctgattc ttcccaacta gaagtctgga 360
 tgtgcaacgc tgtgcaagtt taaaaatgca gtgtcaaagc cggcgcatgg gaactgaatc 420
 tgcagcgaat gtgcaagaaa t 441

<210> 55564
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-C2

<400> 55564

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 acagagattg agctgcagtt ccatggctct cggcatgaca agttctccat tgatctcatg 120
 gctccccctc ctgggaagct gtctgatgat atagatgcct actccatccc tgatgcatat 180
 aagaagggat tggattctga gatggacatg ttggggagag gaaattcgga aaagaaggat 240
 ggtgaaagga ctctgggagg gctggatatt gatttggagg accagaaggt gcaaagaatt 300
 ccagccgatg agtccacgcc caagaagctc aactgacgt tggatttggga gaagcccagt 360
 cttggtgatg aaaaatcacc atcacagcga ctgcagccgc atcaacatcc acaacaattg 420
 catcagctga agccctcaaa ag 442

<210> 55565
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-C4

<400> 55565

caaaaaaaaa aaaaaaaaaat caaaaaaagt ttaaaattta caacaaagaa aacaataaaa 60
 acgttctggt acaaccggaa acggagctca cacaaaaaca ataaaaatct atcttatacc 120

aaatcacata aaaaaaagca cctccccct acatacccca attttattcc ccctaccttt 180
ctactcttac tccttttttaa tacacaacca aatttcattt cattgccacc cttttaaaaa 240
cccctaacct ctaaaacccc tgactttccc caacttattc cccttcaata acacccccct 300
ttctccctct acctaaacac caaaaacgcc cactctattc gcctttccca caatttcc 358

<210> 55566
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-C8

<400> 55566

cccagcgtgc gccgaccatt attcagattt ttcgtacatc gccataatgt tcgataaagt 60
atatattaca acgtgggtag gccatatcaa cattcataac tattgtgcat tttagtactc 120
tatatgtgta tcctttatat gaatagatac actgtactta taatagctca tgtaactcat 180
ccctttgctc ctt 193

<210> 55567
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-H3

<400> 55567

aatttccggc tcgacgcacg catgcatcca cacgttctca gcacctctca ttgcttcact 60
gtttcccaa ctgcaattaa ctagagtgtg gtgtctacac aatcatggcg ctggctattc 120
atccaatcat taatgctcaa gctccacttc ttcgtgagca tgtcaccctt tatcgacctc 180
ttatccttgc cctattattc tatgcttatt tatatatacc gatattctgt ttattattac 240
ccaatacttt ttatacaata ttttacttta atgtactaaa ttattttgat ttcgtttcta 300
ttaacaattt ttacaagttt attactctat atcaatcttg atgcttatca tttactatat 360
taatat 366

<210> 55568
<211> 281

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-A4

<400> 55568

gaattttcgg ctcgacggac gggggcggttc tcttccaaat tctacaacgc gttgctaaag 60
 gtgtatgctg atcacaacct cttatagaag ggtgaggaac ttgcagggcg gatggatgat 120
 aaccgtttca tggtttgtgc cccaactctg gatgcactat gtaagctata ctttgaggct 180
 ttataggttg ataaagctgt attcctaatt cacaatctat ctatacataa ccacattaag 240
 cctatataca acacatacat tactctgctt gacatcttct t 281

<210> 55569
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-B1

<400> 55569

accactctg aactcaaaaa taatataaat ttcaactaaa tcttttgatt ttattcctat 60
 aattttatat acagtcacg tttatattta acagtagtta ttgcccacaa atacttataa 120
 atttcaaccc ttatctattt taactttttat aaaaaaacta ttactaacta cattaatcca 180
 tttttcta at acaaaattcc aacaatttct ctaactta at aattaatttc tattccaaaa 240
 ttcta at cat tttcttactt tataaatttt ttaaaaacac cacttaaatt tctttacaat 300
 acccttt 307

<210> 55570
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E9

<400> 55570

gattccccgt cgcgcacgcg tccggccact ggtgtattga aagttttgaa taatatggca 60
 cgtttgata taaccctttt gggggacatg ctgtctagat cagatctaaa gatggagttc 120
 ttccatttaa tcagcttctt tttgagtc at tgc atgaaca aatggagagt gccaaacgat 180

caggttggtt tgctgcttct agagtctctg ctacttcttg gctacttttc tttgttccat 240
gctgggaacc aagctgttct tccgtgggga aagagtccca ctatacttca caaggtgtgc 300
gacctgccat ttgttttctt cagcgacccc gagttgatgc ccatcttggc tgctagtttg 360
atcgctgttt gctacgggtg ctatcataac cctttgctg tacagtaaga aataagcacg 420
gatat 425

<210> 55571
<211> 183
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-021-Q1-K1-F12

<400> 55571

acgcggnccg ccacgcgncc gccacgcga ccggaacaga gaagggagag ggatacgagc 60
ggcgacgcga aagagggcgcc aggaanaagg ggggaggcgn gaggaggagg actggcgggga 120
gcgcaaggca caagncaaaa gccggggagc aagaggaggg gaccagaagc gangaggaag 180
aca 183

<210> 55572
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-F2

<400> 55572

atttctcggg tcgacgcact cttgctataa atcattccga aaatcaaaac tagattttgt 60
ttttatttat ctataatata aatgggatat agtattatgg actaggggtt aacttaaaaa 120
tattcattac ataatccaat ataattaact 150

<210> 55573
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-021-Q1-K1-C7

<400> 55573

atgggatggc ctacacttca ctgagggcag ttacaaagtt gtcattcaag gagtactagg 60

ggggatatgcc aagcctcccc tttcagaaac ctgcaagggg gcggaattca aagttttctca 120

gcttcaccaa tgtacagata atccaacaaa cactgtatca tacgatgctt tgagctcttt 180

tatttgatct gctcgtaaaa gaagtgcatt tagagttaca gtgggcagca tagatgatgt 240

tgcaggaccg aacatcttgg acactttctc aaagccgaga agagatccat cgatgtaggg 300

tcattcagtt ctacaatcca cttcgctgct gggaggatga gaaaaatggg aagngagttt 360

gtagtgctga aatttgcat tgcttagtgc actactttgc tctgctatgt tttccttagc 420

agcttactac tgcaggct 438

<210> 55574

<211> 151

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-C9

<400> 55574

gccacgcgnc cggccacgcg nccgcgggag cgaagcaaca gccaacaggg accaaagggg 60

gagaagggga gccagcgccg cgccccgaga ggcccacgga agccagcaga agcgcgcaca 120

aaaccgaccg aaggcaagac cgccggggcca g 151

<210> 55575

<211> 190

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-D9

<400> 55575

ccggggcgac gcacgcgacc gngcccaacc aagcagcaan aaagccgctg gcacagcatg 60

cggcaacaag ctnggcacag ggctgaaagg ggggagcgna aggcgagaaa gaagagcgac 120

tggacagggg gagcatnaac ggancgacta aactttctga agagtatata aacattatac 180

tcacctgtac 190

<210> 55576
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B8

<400> 55576

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cagccgcac catggcgccc aaggcagcga agacgcccgc tgcgaaacag ccagcgacgg 120
atgcaccagc tgccgtgaat gcccgaacgg cgaacaagcc catggccatc aagcgctac 180
caacggccaa gtcgatcagc caataatgcg gctacatgaa gggtaacagg attgccaaga 240
agtcggtgga gacctacaag atctacatct tcaatgcgct aacgcatgta catcccgaca 300
tgatcgtctc tttcaaggcc atgtacatca tgaac 335

<210> 55577
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B6

<400> 55577

cccacgcgtg cgcagacgag cgggtggcgct gacggacaag gagcaggcgg aagaggagtt 60
gtgccaaggc aactgggta tgtcgcgtga ctcgatgcac aagcgccgag ccaccggtgg 120
aaagcagaag gctgaagga agaagctaaa gtatgagctt ggtcgccaga cagccaacac 180
caagttgaca agcaataaga cagttatgag ggtccgtgtt cgtagaggta atgcgaaatg 240
gatggctatt ggctcgaca ctggtaacta ctcatgtgga actgaagctg ctaccctcat 300
gacccttatc ctgcagcgg tctacaatgc atcagacaat gagcttgca tgacacagac 360
cgttgtaag agtgccattg ctcacgttga tgctga 396

<210> 55578
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B7

<400> 55578

aaccaaagtt gacatctctg gtgttgatgt cgccaagttt gatgacaagt actttgccag 60

ggagaagaag caaaaggtga agaagaccga gggcgagctt tttgagacag aaaaggaggc 120

atacaagtca ctgtctgact tcaagaagga tgaccagaaa gctgtggatt ctgctctgat 180

caaggctatc gaggctgacc cggagctgaa aacctatctt ggcgactga tctctctcag 240

ggatggtgac aagccccatg agatcggtt ctaagctctt acttctggag ctcgaggagaa 300

gctgttttgt ctgtgatct 319

<210> 55579

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G11

<400> 55579

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gaggttgaca atctgagaca cattgttatg gtaaaaaatg cacgaattga ggaagattat 120

ggcacccata tcgctgatct tgacataaat gagttacaag accggcccag gcgaaggatt 180

gaagaactcc aagtatttga agggacacac catgattttt tcagcttgaa aactaggatg 240

gtgcctagca ttggggagtt tttgtcaaaa atggaggccc tgaaacaaa 289

<210> 55580

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G12

<400> 55580

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agggggctcg aaccaggcga gaataactga tataggcaac aacaaaattg tccccgttta 120

tgcttaccct tgtgtgtgtc tgtgaattgt tataccgcc tccctactgt ctgtacagcg 180

aagcgagtgc ttgcggacac tgggcgcgcg caggggaatgc tcgaggcatt cattaccggc 240

aaaccacgcc ccgagatcaa gatat 265

<210> 55581
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-G5

<400> 55581

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atggatgctg catgcgtggt taatttcttg tttcacgta aggtgatgct gttgtctcaa 120
tttacaactg tgcattgctg tttttgtcat ccatgaggaa gttatgcagt tcggcaaagt 180
ttgtatatgt gtgtaggtgt atctgtatca atgaatagca tgattatatt gtaacagtat 240
taggattcca tctctgtttc aagcactact ttaatttaac cccattatgt tatgcgtgga 300
gatcaatatt tatttcaagc aanatttatt tattttatct ttatataata tattattttt 360
aattttttta tttatttata ttatttttta attttt 396

<210> 55582
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G6

<400> 55582

aaaaaaaa ataaaaaat tatattaaaa ttttttttct aatatccctt caaaccctcc 60
aaaagaagtt tttttttaa cagagtcgca ctcaccctct cctatcctta ctcaaaacca 120
atctattttt tcttataaaa ccttttatat tctctcttat ctaacttttt actttctttt 180
ttttatattc ctaatttatt ctccctccc tctcctttta ataataatct ctttcttccc 240
tttatectct tttcttcctt tttttttttt ttctcctcca atatttcttt cctttttcta 300
cccttttttc acacatcctt tccatcatat ataactctct cctccttttt ctcccatatt 360
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<210> 55583
<211> 465
<212> DNA

<213>	Zea mays					
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ccgccgcggc	gttctcggag	gggaagaagc	agctagaggt	tgcgaagcgg	caagcgggtg	300
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tgcgaccttt	tcttccccac	cgttcccggt	ccagattcgt	tgtttttgtg	tgatgatgaa	420
actataaaact	gtccggttgt	cgcattttct	ggatgattgt	catgg		465

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<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3088-020-Q1-K1-H5

<400>      55584
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaagt	ttttatttaa	180
aaaaaaaaaa	aaaaaaaaaa	aacatctaaa	caaaaaaata	aaaaaaaata	aaaaattaac	240
aaaaaaaata	taaaaaaaca	aatatattta	aaaaatatat	aaaattggcg	tcccctttt	299

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<211>      161
<212>      DNA
<213>      Zea mays

<223>      Clone ID: LIB3088-020-Q1-K1-E1

<400>      55585
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<210> 55586
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E4

<400> 55586

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 agggcctaata cgccacctca aacatcgtga caaaaacatg aagtcctggg gttattggta 180
 atctggtgcc attgtaagga catattagta gggtttgttt tgtggatcgc aagtttctct 240
 tctgctactg ttgctgctac ctttgctggg gttattgcta gggtcgaata cttaagttaa 300
 ctatgcgctg acagtctgga ctagcaatgt tatgtgcgct gctggacctt gcgcgcaatg 360
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<210> 55587
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E5

<400> 55587

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 ccgacaaaaa ggttatgctt ttgctgagta tgaaacagag gagattgcc agtatgccat 180
 taagctatctt tctggccttg ttgacttca taataaaaca cttagatttg cggtgcggtt 240
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<210> 55588
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E8

<400> 55588

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agaagccatc catcatgcat gattctgaga caggtatgga ggttgataaa gttatcgatg 180
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gtgatgggga ttctgaagct ttgttggtgg aaagtagggg aaatttaagt cggataccta 300
attccccaga aagtacacat tgaacacctt ttattccatt ttaatttctt tttgtctgag 360
ggtcttctgc cctcag 376

<210> 55589

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 55589

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acagcctctt cccacttttt tttagtctga tttcacataa atgttcccct tttgttgta 180
gggaagaatc tgacttcccc tgcaactttgt atagtgcacc acgaagaaat tcctttgtac 240
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cttttaatag ctattttttc taccactaat atgtgatatg gagaagggtc agtttggacc 360
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ttt 423

<210> 55590

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-F12

<400> 55590

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 gtctgcagaa ctctttccag tgacgtcaat gatgtttaat cacgcaccta ttgattctga 180
 accactgaaa aatgagttgc acaaattacg attacacatg gacacactca ataaagtcca 240
 tgaaatgaag aaaacccaac ttcagaccgc atgtagccaa gaactagaga aggtaaagag 300
 aaaatatgat ttgttaatta aagaacatga ttccactcat cttcagcaaa agaaggcact 360
 tgggtgatttt tatgagaaag ttcagcgcaa ccaatcgctg gctgaggatt ttcgggccaa 420
 attcatatca c 431

<210> 55591
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-D10

 <400> 55591

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 tgttcagccg ccttccctcc ttcattctca actccccctg cgtccgttcc tttggatctg 180
 aataagatgg tgggtgatctg agtgggtggc ttagtttatc atgtatcgct cgcaatttaa 240
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<210> 55592
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-D11

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 gtcaagagta tgcttcagaa catggcttgc ctatgctaga acatgtcctc cttccaaaga 180
 caaagggtt catttggtgt ttgcaagagc tgaggagtgc cttagatgca gtttatgatg 240

tcacaatagc atacaagcat cgactcccag attttctgga caatgtgtat ggcgttgatc 300
 cttctgaagt ccacatccac gtcagaatgg ttcagctcca tcacatcccc acaacagaag 360
 acaagataac agaatggatg gtagagaggt ttaggcagaa ggaccagctc ctggcagatt 420
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<210> 55593
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-D12

<400> 55593

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 gtgaacaaa caccatattgt aaccgggtg agccaaacac cggtagcatc cattgcgaac 180
 caaagaccag tagcaaaagg aaggcacctg gtgagccaaa caccatcagc aaatgggaaa 240
 cctctgacga accaaacatc agtagcaaat ggaagatccc tgatgagcca agtaccatca 300
 gcaaatggga aacctctgac gaaccaaata gcattgccaa atggaagacc catgatgagg 360
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 <211> 164
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-020-Q1-K1-A5

<400> 55594

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 aattcttttc attcatcatc ttctaccta taaacccta aaat 164

<210> 55595

<211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-A6

 <400> 55595

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 ccggcgagcaa ggcccccc 137

<210> 55596
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-B1

 <400> 55596

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 taccagtcga ccggttcctc ggagcacaat aaagtttggt gctgcctacc tgcttgctgt 180
 cctcgctgga aaccccgagc cctccgctga caatttgact gccattctgg agtcagttga 240
 ctgtgaagtt gacaatgaaa agatggaact cctgctgtcc caacttagcg gtaaggacat 300
 aaccgagctc attgccggcg gcag 324

<210> 55597
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-020-Q1-K1-B11

 <400> 55597

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 cccttgatata ctgctgcact cctcactaaa aacctttacc tccataacag atatatatat 180
 ctatcgtgta ctaacttcta acattttttt agctttggaa ctaacagaca cttgtattat 240

agtgcataaa atacctatcc ccctccgtgg ccatataacc ctttaagtcga tctatctttt 300
aatgaggcgt ttgacgtaa 319

<210> 55598
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-B6

<400> 55598

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cttacattat gatccattat ctcttcagct actgctagtg aaagagttgt ttgggtcatg 120
cccacaaact aagcatgtca caggttctta ggcatatgtt tttgttagga g 171

<210> 55599
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-C11

<400> 55599

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catcatcata tcattttccc ttccttcatg gattgatgct tgtctgcct ctgcttctgc 180
tgctcctat actccttctt cttatattga taaattccga ccaactgatt ctacacttct 240
acaatttaaa ctactatctt tctattctaa atatacagat atacatcttt aactgttttg 300
agcctataat tctatcatgc tattttatct tttcatatc ataatttgc accctaattt 360
tttatttc 368

<210> 55600
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-G6

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tcaaacagtg attctgttat ggctgaacga gaacctgcct caaatgcttc tactgggtgac 180
aaagaacaac caaaggatga tgactatcta ctacaacaag cacttgcaat gtcaatggat 240
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<210> 55601

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A10

<400> 55601

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tgcatctgta cttttacttc tactctataa gtcgtgtcca gaaacgacta ttacttaaat 180
ttgcaaacc ccatTTaaat gcatcatggc tgcagcgtaa tcagagcgta actctaggta 240
gcacttgatc tgcaaacaca catttgattt tctcatggac tcaccataaa tgagagattg 300
atagtacttt cattatataa ttcacacatc gcgtttcta 339

<210> 55602

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D5

<400> 55602

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cattggagaa acagttctct ggcaatgctg aatctagggc agcaggaatg gttatcaata 180
caatgggggtg ggttgaaggc cttgggtatg agttacttct caacgcaatt gaaaccttca 240

aggccaatgt agtactggta ctgggacagg agaaactctg gaagatggtg aaagatgcag 300
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 gaaattcaaa atatctgcaa agaacgagaa agcttcgaat caaggaatac ttttatggga 420
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<210> 55603
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D6

<400> 55603

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 gccgaggcct tcttcccctc gctccccagc tccagcaagc agatcatatc catccaacca 180
 cgaacaggaa ggaaggtagc aggcctgaag ggctgggctg aagttgaacc atgagtgccg 240
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 aagtggagga cttctcgccg cagtgggtggg acctcatcac caccaccgtc tggttccgcg 360
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 ccctcctttc ctacgatgaa gatgaggacc tcttcta 457

<210> 55604
 <211> 68
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D8

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 gagttaaa 68

<210> 55605
 <211> 373

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D1

<400> 55605

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 ctttggaatc ggagagaaaa tggggaaatc ctccaccagt agagaatggg tctgctagca 180
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 aggggtgtgc gactaacctt ggcagatagg ttccaaggga gcctgacaac gcgctcaata 360
 aaaataattc aac 373

<210> 55606
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-A8

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 taaatttaca aaacccttac ttaacaaacc ttaatctact ctaactaat ccccttcct 240
 ccaatcccca tattacccat tatctcctta cctatcacc ttacaaccat tttc 294

<210> 55607
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B3

<400> 55607

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taaaacacaa taataaaata aaaaaaacaa aaattcaa at caaaaataaa attaa 175

<210> 55608
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B8

<400> 55608

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atgctcctag cctgctctc cagagcccaa agccgctagg cccaattcta cacctcagac 180
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tgcggttca agcacaccaa ccagtacccc ttcattgtcca tagactccta ctgaaacat 360
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<210> 55609
<211> 488
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C5

<400> 55609

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gcagcttgct tgttgccagt tgccgggtgc ttcctcaagg tcttgctcat ggttgatctc 360
gaaaatatgt ctcccgaat aatcttgttt atcttcttcg gtggtggcac ctggtagaaa 420
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accaaata 488

<210> 55610
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C8

<400> 55610

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gggttgatt ctcgagtcgt caaatcttag taccgggtact gtgtatattg tatatggttt 300
cagttgtcta taacgttgcg gcttcattga ctgtctgtgg tataagtttt tattattttt 360
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<210> 55611
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-014-Q1-K1-G2

<400> 55611

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agtcttggtc cagctgcggc ggaagagcgc caggtgatgc acaagctttg ggtatcgttt 180
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cagtgggctc agatcgatgt gctgtgggta cttttgtgca agccgttcgg tatcgtttat 300
gtatctgtag gtatccatct atggcttang aagcctgatg aagtctcgac tctttataat 360
tgctactcct atataaattg ccagctagtt ggaccgtact taa 403

<210> 55612
<211> 200
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G3

<400> 55612

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gaaggggcca ttcatacaat acgatgatat gtacagctac tcggaacgca ggcttaacta 120

agccaccact aacatgccgc tgaagaacgc catctgatac aaatgcaaca tctctcactt 180

caatgctaata aactatcaca 200

<210> 55613

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-014-Q1-K1-G5

<400> 55613

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tccacctaca ccttgctcgt gctcttctgg gcagaaatat accatcaggc taggagtctc 180

ccaacggaca agctaaggcc tgcatacatt gccgttaacg ccatcatata cgttgttcag 240

ctttgcatat ggatatacct cggaataaat gataatgccg cggttgagct ggccagcaaa 300

atattcggtg tagctgtctc ctttgttgcg cttcttgggt ttcagtatat ggtggaaggt 360

tgtttgtctt gctgagacgt ttccctattg aatctaaggg gc 402

<210> 55614

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G6

<400> 55614

tggcagcatg cgtgggagca aagcgagctt cattctgaag tgcagcctca gcagctcggt 60

ggcaataact tcttccattc cctcgatggg gctggtgaac ccacccttca gataggggtat 120

ccttcagagg cactgactag ctcatgcatg accaccttcc tgcccccggtg gttgccatga 180

gategaacta ctgcgcaatt cctaattaat gagcatggcc gcatgcagct gcctgtgcta 240
 tacgtagtgc ttggagtgtg cttcaaggtt cttgcatgac aagtatgtgt gttacatttg 300
 tgatggacat ggaaactatc caattaattc ttgaaaaatc aatga 345

<210> 55615
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-G8
 <400> 55615

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 ctaccaggaa gctccggacc actttcaagg cttccaggcc caaccttttc atgtgagagg 120
 tatatcgtag ccgtgttctg tgtcttgagc gcccgagaga taaggattct tctgtgcaa 180
 gtttttggtg ccctgttcgt tgagcacttt gtttgattcc agttaaggat ttgaatgatg 240
 ctgtgtaaaa caatgacttg tctgcaatta gttatcaact actgctattt acctgcc 297

<210> 55616
 <211> 209
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-H1
 <400> 55616

cccacgcgtc cgcccacgcg tacgccgact cttgggctga cacgtgggag ttcgcataga 60
 ctaagtgtaa tagacgggtg cgcttcgata aggcgtaacc atatgaacat atgtgcgata 120
 actgaaacct tacaggccac tttgcatgag aatacgctt acatactgaa aaccccaact 180
 gctaaaagtg tgtgcacatt gcccaattat 209

<210> 55617
 <211> 221
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-H10
 <400> 55617

catcataatg caattatcta caactgttta tttattaaaa acaatttgcc tagcacagaa 60
 ggctttttta cttgggaagg aatgattttt tcatagtatc caaaccaaga tcaattaaag 120
 tggataaatt gattaacatt tatagatact tccatgttat tcacatcatc ttaaccgtta 180
 ttttacattt tgatgatcat cttcataatt tgtatgcctt t 221

<210> 55618
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-H11
 <400> 55618

ggaagatgga cctgttcac c tttttattc gataagagcc aatgcaagtt ctgctttagg 60
 gttgtccctg gatctgtctt ctagaacaa gcagggtact tcaaaaattc tggttgcaga 120
 ggacatagca acattcacca gaaagaaaca aaatcacaa tatggatcat atgttaaagc 180
 cgataagggtg gagctacacg ctccagataa ccacggttgg gtcctttaca aagcaactgt 240
 ttcttccagt gctgggcaca cattaactgg tatcaacatt gtctgcacat tgaaatttac 300
 tggcgaaatc agtccagaat cagaagatgt cgatggaact tcaactgtatc aggcatcact 360
 aggccacctc agtattcgaa atactgacaa aaatacagag ttccctccag cagaatcttg 420
 gataactgaa ggaggatata tctcgtgggc aaaatgctct 460

<210> 55619
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-H3
 <400> 55619

ggaccgatta acttggggaa ccaggtgaa ttcacatgc tggaacttgc tgagaatgtg 60
 aaggagtga ttaaccaga tataacagt acgatgaccg agaacactcc tgatgatccc 120
 cgccagagga agccggacat caccaaggca aaggaagttc taggggtggga gcccaagatc 180
 gtctgaagg acggcttggg gctcatggag gatgatttcc gggagcgcct ggccgtgccc 240
 aagaaaacca aggcctaaac tgccctgcgg tgggcgaaga atatccacgg gggagcatatc 300

tcatagttgg cttgtcatta ttcgtggcca catttcatta cggaatttga gttccaataa 360
acggaatata ccttcttcga tcaccttgaa ggattgtatc attagaattt tcatacaagg 420
ctggcctttt gagtctc 437

<210> 55620
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-014-Q1-K1-H4

<400> 55620

ggaacgagca gaggaagact aggtccttct atgacatgct tgacaagggc cagatcagcg 60
ttggcgtcga ggagtaaaga gttcttccca gttattttca aagaactctc tcgagagcat 120
gacaaagtga ttgcttgctg tggagatttg tcttggaat aagcacaacc atttgagaac 180
accagatttt gtcgaatttt cctttccttt tgatgaatat ttgagcacgt ccatgtcaat 240
accaaacatc tggccttttc tctctctctt tttacatat gtttatgtgg tcttagcaag 300
tagtttgct cgactntgcg ttatgaggta tgccgtatgt gattggatca cggtgaccta 360
acaggccaaa aaaaatagat cacct 385

<210> 55621
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-014-Q1-K1-H9

<400> 55621

cttccaatga gccctctgga gtctcttgcg tcacttgctg tgcgaactgc caacaagggc 60
aaggccgcac tgatcgctcg cttgactcgc ggtggcacca cggccaagct ggtcgccaag 120
taccgcccc gggttcccat cctctctgtt gtggtaccg tgctaacgac ggattctttc 180
gactggacca tcagctccga gggcccagcc aggcacagcc tgatctatag aggcctcatt 240
ccctcctcg ctgagggtc cgccaaggct acggattcag agtctacgga ggtgatcctg 300
gaggctgcgc tcaagtcggc cgtgcagaag cagctttgca agcctggtga tgccattgtg 360

gctctccatc gtatcggcgt cgccttnegt catcaagatc tgcacgtga agtgatcacc 420
gtgacttgac tnctaagtcc caaggggtgt ttc 453

<210> 55622
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G12

<400> 55622

agatcaaagc caagagcatc aactgtttat tgatgaaaaa caatgtgccg agcacagaag 60
gctttttaac ttgggaagga gtgatgtttg caaggtatcc aaaccaagat cagtgaaggt 120
ggagaaattg atgaacattg aaagatactt ccatgttatg cacatcatct caactgttaa 180
tggacagttt gatgatcatc ttcagaattt ggattccttt agagctgcct tgcccgtttg 240
aacagtcagt tgtgcaccaa aagttgaatg ccatggagtt gattgataag tttgaagtta 300
cgaggcgagg accatatact gggtgtctaa gatgaatata gtttgattgt tacatgcaaa 360
ttgcactttc tc 372

<210> 55623
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E12

<400> 55623

accactcat ccgcacaacc ttccgcagac tcttaagctt atttattcct catttaaaca 60
cctctacagt gagatctttt atcccgaaca ttgacaacta cctattccaa cactccacac 120
tgattataac acataatcta catttcaaag accatccaca tttttctacc acatataact 180
cccaaatacta tttaccattt atcaatcaat ttaatccata tatacttcta ttccatc 238

<210> 55624
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-014-Q1-K1-E3

<400> 55624

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cgacctcgac atgctcaggg cgctgagcct cagctcccc cgggccgccc cgcgccgctc 120
gccgtcgccg ttgctgcgcg cccagcagca gaggcacgcg gacaggccgg cgcaccacgc 180
cagggggcgcc gcgcgcccgcg tcacatcca ccagcctcgc tagaagcagc ctgatcatgg 240
cgggctgccc ccatggctgt tgtgcctagt gtaacctcaa gcaagtctag tctgtttctg 300
tctgtgtata cgactaataa aacaacagat gggggattcg gacgaggcgg tcagtgtctt 360
ctcctcatag ccagcttctc ctgttcaagc tcagttcttg ttcattccagc agagcacata 420
anaaaaaacag acaggcagag tgat 444

<210> 55625

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E4

<400> 55625

atcaaacaag atccgtttga catttttagca tattggaaga accaaacaga taagtatcga 60
attctttccc aaatagctcg tgacttaatg tctgttcaag tgtcaacagt agcatctgag 120
tcagcattta gtgctgggtg ccgagtcatt gatccatc gtaatagact tgaccctgag 180
gtggtggaag ctctaataatg caccaaggat tggataaatg cacttagaga agattctaaa 240
agcgttctt 249

<210> 55626

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E5

<400> 55626

ggagcggcag actcgattcg tcctgctcgt cttcgccatc ggggctctcc tcgccagcgc 60
cgccgcccgc gacttgctcg cggtgctgg ttccctgcac gcgctgccgc tgcggcgcgt 120

ggaggacgac gacgcaagca gcttcgtgga ggaggcggcg taccgcccga ggagggcgct 180
gtacgggggc ggggtccatca gctacggggc gctcaccgcg aacaaggccg tctgctacgg 240
ctcgtgcgcc gctcgtgggc aggcgatac ccgcggtgc ctggccatct acgggtgccg 300
aggtggccgt taattaacca gaagcagcgc gtagctagca gtcgatgtct gttaattaca 360
tgtctgtttc ttgtgctgct tctcggtttt cttctaatac ctttctcttg cttcaaaaaa 420
gccaatcc gatccatata tacatgttgt c 451

<210> 55627
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E6

<400> 55627
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cctgcacttt gaagagcaat ctatatgaac cagcaggcat gctgataaaa aaaaaaaac 120
aaaaaaaac accaacagaa gaaacagaaa acgaaatcca aaacaccgaa agaattggaac 180
attcaaaacg aaagaggaca acagctccaa gaagcatgag gtgaaagact acattgaaac 240
aaggg 245

<210> 55628
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E7

<400> 55628
aaaaaaaaa aaaaaaaaaa aaaaaaaat aaaaaaaaaa aaaaagccaa ccaaagtagg 60
tgttccatac ttacttacct ttccatacaa aaatgtcgcc catttttttag gttccctac 120
tttctattcc ctttgcccc ctttttaacc tttctttctg gtaaaccctt ttcatttccc 180
taaccttttt tctttacctt ctttttccct ttaccctttg gttcctcacg taaaatccct 240
ttctaaaata ccttttttta tcttgtctct ttaattatta atgttccctc cttttttttt 300
ttacaattat ttctctcttc tttttttttt tcttccccct tttttgtttc tcttttttct 360

ccctctataa tttttttttt tttatatatt tccttctttt ttt

403

<210> 55629
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E8

<400> 55629

cccacgcgtc cgccacgcg tccggttcga gcagcaggtc cgcgcggcgc tgcccaagga 60
ggtggaggcc gcgcgcgcgg tcgtggagag cggcagcccc ctggtcccca acaggatcag 120
ggagtgccgg tcctaccgcg tgtaccggtt cgtgcgcgag gaggtcggca ccgagtacct 180
gaccggcgag aggaccaggt cccgctgcga ggagctcaac aaggtgctcg tggccatcaa 240
ccatttc 247

<210> 55630
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E9

<400> 55630

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tacgcctaca cgctgaaggt ggacgagaag agcgacgtgt acagcttcgg cgtggtgctg 120
ctggagctca tcgccgggcg caagcccgtc ggggagttcg gcgacggcgt ggacatcgtg 180
cactgggtgc ggacggtgac cgggtcgagc aaggagggcg tgatgaagat cgccgaccca 240
cggctctcga cggtgccctc gtacgagcta acccacgtct tctacgtcgc catgctgtgc 300
gtggcggagc agagcgtgga gcggcccacg atgcgcgagg tcgtgcagat actggccgac 360
atgcccggtc cgacatccac gacgtccata gacgtgcccc ttgtcatcga gccgaatgag 420
gaggactggg gcccgagaaa agagcagcag cagcagca 458

<210> 55631
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F1

<400> 55631

tgcagcacct ctagtacaaa ataggttgcc gggccagcca tgccaaacaa ccatggcagc 60
atgctgtgaa ctagaggtgc tgcacacctg tgttctgtg ccccatccaa tgtgtatatc 120
tcatatttgc ccgtgtcaca tgaatgctct gttatttgta gctcaacaga tacgtttttc 180
tccccctttc tgatgtatga agtttgatct tgcc 214

<210> 55632

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F2

<400> 55632

accacgcgtc cgaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaagg 60
aaaaggaaaa aaaaaaaaaa aaaaaataaa aataaaaaaaaa aaataaaaaac aaaaaacata 120
ataaaaaaaaa attaaa 136

<210> 55633

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F3

<400> 55633

ggaattttgc atgagcacag tgggtgccttt aagttttgcc agtgagcatt tgcaggtcgt 60
aaatgggtgg aatgaggctt ctctggcat tagattgcaa tgagattcct cagagacagc 120
tggattatgg atgacttaga aactatatat agcagtgatc ttgagcttcc tgtgaggtgt 180
gagctgacca agtgagcaat caccggttta ggctgtatgc ccagcttcgg tgcagagttt 240
tgtataatgt tcaaaccct tttgttcttt atgtttgtat ttatttttta aatagtgcta 300
attcccttaa aaaaaaaaaat cttttttata aaaag 335

<210> 55634

<211> 294

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-F4
 <400> 55634

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 g g t c a c c a t t t g a t t g t t g g a t g c t c a c g a t g t a a t c g a g c a a t t a a c c g a c a t t g t t c t 120
 g g t a c g a a t g a g a g t t a t a g g a g t t g a t c a t t t t t t t t c t c t g g t t c a g a a t t c c a c t t g t 180
 a t g a t t g g a t g a g c t c c c t g t t t a t t a t g a a a c t a a a a g a g a a t g a t g t c a t t a t g g g a 240
 t g a a t c a t g t g t a t g g c t t g g t a a a a a a a a a a a a t a t a a t t a a t t a a t a t 294

<210> 55635
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-014-Q1-K1-F6
 <400> 55635

g a a c a t t t c a g t a g a a a t g c t a c t g t t g t g g t c t c c c a t c g t t g a c t t t c a t g a g c g t g g 60
 t g g t a a a c a t c g g t t c t g c t c c t g t c c t g t a t t c a t c g g a t g c a a g t a t a a c a c a t g c t t 120
 g g c t t g g g a g g a g g a a g c a c a a g g a g c t a t t g c c a c c t a g c a a a a g g a t a a a g g g a g g a 180
 t g a c g a a t t g g c g a t g t g t t t g t g a c a c g c t g c c c t c a a g t g t g g a t g a t g a g t g c a g a t 240
 a t g t t g g t g a c t g t g c c a a g g c t g t c a a g t g t g t a a a c t a a c g c t g t c t t t g t a t 295

<210> 55636
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-014-Q1-K1-F8
 <400> 55636

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 g c t g c a g a a a g a g a t g a t g g c g t t c c t t g c c a a c a c a g a g a a g c a c a a g g a c a t t g a g g c 120
 t t g c g a c g a g g t g a t a t c t g c t t c g a t c a a g a a g a t c c a t g a g c a c c g c a g g a g g a g g g c 180
 a t t c t t c c t g g g t t t c a g c c a g t c c c c c a g t g g a g t t c a t c a a t g c a t t g a t a g c t t c c c a 240

gagcaaggat ttaaagctgg tcgccggcga ggcgaataga aacattgaga aggaaagacg 300
 tgccgacttc tataaccaac catgggtcga agacgccgtt ataagatact tgaaccgcan 360
 accagctaata g 371

<210> 55637
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F9

<400> 55637

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 ggggttatga agcttcggag tacctggcat agttctactg tgttcccat aacgagagag 120
 aatattaaat aacaccacaa ttgaagaacc aaatagtttc atatgccacg agctgaggac 180
 aaaatatttg caagagtttt cttgctgctt tctactcctg tgcattgagga caaataattg 240
 ctgatctgtt gagttttcca tgtggagatg ctttcaaggc atatttgcta catatgcaac 300
 attttgaacg gacaacaatt gtcagaccaa ttctatgtcg atcactttct gatgactgat 360
 tgacagatat tcatgtatgc atactattta cttttaaa 398

<210> 55638
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G1

<400> 55638

gtgcttgtaa tataacttgt tttttccccc ttcatttcca gccccgatgt aacaggccat 60
 tttggttttc taggtacttg gtgactcatt tctagcaata gggctgtcat gttgtac 117

<210> 55639
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E11

<400> 55639

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atagaaatcc aaaacgggtga cagctaccga ttccaacagg caaaattgag tataatacat 120
gatctacttg ggaaagtcca tgcagctggt gttagcaccg agaaaggcca agtctataga 180
gcattgctca atgagttgaa tgcagaaaga cgtcaatgcc gatctgggat gcgagatttg 240
ttcaatacct cttttgggtgc aacattttctt acagacacgg gaagggaatc atcattttcc 300
tatcacattc atcaatatgc cgatattttac acgagcaagc ttgagaactt tttatcatat 360
gccctgaat cttggcttca tccacctcat gacataaaga tcatgccaca caatgcgaaa 420

<210> 55640
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-014-Q1-K1-C1
<400> 55640

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tagtcatagg catatacggg tatacaaaac tcatactcaa aacctactga atgaacttcc 120
cttcagctac agcaagcaac tcaagacgca gcatatacaa cgatgggtgga gcaccagcgc 180
aatttccttg gcacccaccg ttacatgcag aatagtttgc ttgaaaggat ggtgcacaaa 240
atagtttgcc attcctcctc tctgaggttc tgctaaaaag catgttgcggt ttgaagatcg 300
tcggatttcc agacgacgtc ctttaagggtc ttggaaaggt tctttagtaa cttatgaaat 360
tccag 365

<210> 55641
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-014-Q1-K1-C10
<400> 55641

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gtgccacgaa accaccggtg gatgggacgac tgctccggat ggaccgtttg cctgggggata 120
ctgccgggtg aaggaacaga aacagacgga cccaccctac tatggacgag gaccataca 180

gctaactcat aagtacaact acaggctcgc cgggcaagcg ctgaacctga acctggtggg 240
cgacccggac ctggtggcga gagaccccggt ggtagccttc aagacggcca tctggttctg 300
gatgacgccg cagtcgcccc agccctcgtg ccacgccgtg atgaccggcg actggaggcc 360
cttcgtcacc gaccgcgccg cggggagggt ccccgatac gggctgacca cgaacatcat 420
caacggtggt ctagagtgcg gcg 443

<210> 55642
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C2

<400> 55642

acgcattcct cccatctccc aagacctcct cagacccgag aagcgcagct gcggccatgg 60
acgccaccgg cactggagct ggaggggaagg cgaagaaggg agcggccggt cgcaaggccg 120
gcgggcccag gaagaagtcg gtgacgaggt ccgtgaaggc cgggctccag ttccccgtcg 180
gccgcatcgg gcgctacctc aagaagggcc gctacgcgca gcgcgtcggc agcggtgccc 240
ccgtctacct tgcggccgctc ctggaatacc 270

<210> 55643
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C3

<400> 55643

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tgtatgtatt tttgatatat ttactgatg aaatagtgga ttacagagtt ctaaaaatga 120
tcttcttggg agatcacagc attggaaact gttggaaaaa atgtttaaca attcaatcta 180
tagttccaat tgttgcctgt atagcaacaa g 211

<210> 55644
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C6

<400> 55644

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aaaaaaaaact atagat 76

<210> 55645

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C7

<400> 55645

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taacctagtt ggagaagctg gaacaaaact ctagccagta gcactaacag actggtgata 120
ggtagacatg atatgttact tcgctggcga aagttttcat gagtcagcgc tatttgaggg 180
ggattttaac attcattctt tgggtgtagag ccattcgtct tattattaca tcatttaatt 240
cattcttggt aagtactgaa ataaggggtg atatctcgct tcatg 285

<210> 55646

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-014-Q1-K1-C8

<400> 55646

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gctatgcaca caagatgcaa tggcgcgtcg tcccagcatg accaatgtcg ttcggatgct 180
ctcaggggag aagagaatca acgtagacca gatcactagg cctgccatga tctactgattt 240
tgctgatctc aagatcagca acaaggagca aaaaccaggc gacacacgct ctnccacgac 300
aactgctacg acgaaatcat tcaccaccac cgaaccattc tcgtcgtcag agacgcccac 360
gcagtcattc atgtgaaagt gtggcataag aagcagtttt ttttggtggt tcagtttgat 420

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437

<210> 55647
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D11

<400> 55647

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gagcatataa aaaacaagaa aaaaaaaact aacaaacaaa agaaccacaaa tctttataaa 120
aacaaaaaaaa aaacaaatta aattttcaac atcatactcc ttattctaata ttaactaaca 180
aaactt 186

<210> 55648
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D2

<400> 55648

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caagtccggg aagccgctcc actacaaggg ctccaccttc caccgcgtca tccccgagtt 180
catgtgccag ggcggcgact tcacccgcgg caacggcacc ggcggcgagt ccatctacgg 240
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ggccaacgcc gggcccaaca ccaacggctc ccagttcttc atctgcaccg tcgcgacccc 360
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ggccatcgag aaagtgggca cccgc 445

<210> 55649
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D3

<400> 55649

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tgccaagaac ttaaactgtg cgtgactggg tctattaatg catagtgtaa attgtctgga 180

ccactaccaa tatgttacct aagccttcac gttecgcttat acagcgtcaa tctggatctc 240

catgaccagt actagctagg gagtgtgtga catgtgcatg tgctctgtag actgttatgg 300

cctcttcctg ttttcattgc atgcgctctt tgtaccatgt aaagcctctg a 351

<210> 55650

<211> 160

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D4

<400> 55650

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cttgactaa attgattgat ggaagttgca tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaac aaaaacaaaa aaaaaaaaaa aactaataat 160

<210> 55651

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D6

<400> 55651

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ctttatatcc ctttttcttg acttttatct cttttttttt tttccttttt tttttttttc 120

cttttctctt ttatatatttt tctattattt tgtctctctt tattttttt 169

<210> 55652

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D7

<400> 55652

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gcgatttgaa ccttaacct acaagatcaa cggctagga caaactaaaa cggagcgcaa 120

cggaattctg ggtcacctac tcttagcaac agttagcttg gcaagatctt tttccgtgcg 180

tttactgttt cttcttatgc atcgtcta 208

<210> 55653

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D8

<400> 55653

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atgtacagat gctaggatgt ttgctctgcg tgagaaaagg gtgcacgtta cacaggaaca 180

cttctagatg gccacagcca aggtgattaa aacagacaca gcgaagaaca tgtccctgcg 240

caagctctgg aagtgaggct catgccttga tgtaccacc gtcaccttg acggactctt 300

cctgaacgggt gtaacggcat gctacagacc ttttgcgacg tgccttgcac gctgtgttt 360

aaaggtttgc ttataac 377

<210> 55654

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A2

<400> 55654

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acagttacag aggttgctcg accttcatt gcccgatga ggtaccgagt cactagactg 180

ccgaagtatc tgatccttca tatgcgaagg tttacaaaa ataacttttt tgtcgagaaa 240

aaccctactc tagttaattt tctgtgaag aacttgagtg tgaaagacta cattccatta 300

cctaagccga aagagaatca taagctacgt tcaaagtatg acctcatagc aaacattgtc 360
catgatggca aacctggcga gggatgct 388

<210> 55655
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A3

<400> 55655

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tatgagacta ctggtactct gtcgatgtcg attggattag actagggctg gtgtgtattc 120
tgtggatgct ccgtgtttct ggtgggattc aagttcaacc ctgggattat tgtatttc 178

<210> 55656
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A4

<400> 55656

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atggcggcgt ccgcgaggcc cggggatagg gcgaccagct tcgccgtcgc gtgcagcctc 180
ctcagccgct tcgtccgcca gaacggcgtc gcggtgccg agctaggcct caggatcaaa 240
ggcgaggctg agcagcagag gacgccggcg acaactaact tgctccccgg agcggagggc 300
gaggaagtgc aaaggaggaa ggagaccatg gagctgttcc cgcagagcgt cgggttcagc 360
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acaatcttct atggcgggga ggtgctggt 449

<210> 55657
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-014-Q1-K1-A6

<400> 55657

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gctttgtgag gtacagcacc catgaggagg ctgcattggc aattcagatg ggtaatggcc 180

aacttattgg cgggaggcag ataaagtgtt cctggggaag caagccgact ccacaaggga 240

cagcatcctt gcctctgcct tccccagcac tggcaccatt ctccactgga gtgtcggcca 300

ccgacttgct ggcctaccag cgcctgactc tgagcaagat ggcctcgaac ccagccctaa 360

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<210> 55658

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A7

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ctatacatat atggacaacc ttataagtgg ctatgagtgt acctatccta acgcttatcc 180

caaatggtgt atcagcgtca tattgtgaga ttgtgttcaa gcaaacataa ttcaaatac 240

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<210> 55659

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A9

<400> 55659

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tgtcaccgag aagcttcagt caagacatga gactttgcct gagaaattcg ttgagacact 180

gaagctgatg gaacaccgat acggcgcaaa ggacttcgag acgagcagag acacgagcct 240

actgcagccg ggcgcattct acctcaccaa ggctcgactcc atgtaccgga ggttctattc 300
ccagaagctg tccgaggaaa caggcggcgg gaaaaccaag tgctgcaacg gcctcgcaaa 360
tgggcactag tggctgcccc gcaactgttg tcatcattct cagtattttg ataatgctca 420
t 421

<210> 55660
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B2

<400> 55660

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ggagaggttt gaataggcat gcgaacttat tcaaaatata acgctgcatt taatccaact 120
tcatttgcta tactctgtaa cagactctct cagctcctac atgcgcgatc cctatcgaac 180
gcaaccacgg gaaaagttta acaacatttg gcaactgtaag tgccatataa catagtctcc 240
atttcaattg ccgcttcagt gctgctgtca caatattatt tcggcatgac atcatttatg 300
tcaggcgggc tgatggccct t 321

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<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-014-Q1-K1-B4

<400> 55661

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gagatagcat ggtctccaaa gatgtcctga agctgcgagc caaagcgttg aaaaagctcg 180
gaacgatatt ccaaggcgca gagtctatgt accgtcgtga aaacagcctg cgcgttgaaa 240
cgagcacaga ccaacaagcc gcttcgtcac actgaagcca cctgtggacc accgtgtagg 300
aatggatttg gtgttttgtg tgtgtgtgtg gctttcttct ttgtttgtaa ttgtgtatgc 360

tatattaatt ntctttaga agatgtgaaa catttaacac aaagatttta actgctattg 420
atgcagaaat taacctgcag cttgctttt 449

<210> 55662
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B5

<400> 55662

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cccatcgact cgatccttaa gatgaccgtc ctggcaaggg cctgcacgca cgaagacccc 180
aaagcaaggg ccacgatgag atacatatag gggcgctctt aaacactcgt gttaaaacga 240
gcgatttctg acacatgaac gctaccaag aaaaccaagg tgtcgagaac cttatgttcg 300
ggagatgact tctgtccctg tgggctgtgg tatatattat tgtacgtgct acctgacttc 360
ccctgggcaa ttgtacatta aggcataat 389

<210> 55663
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B6

<400> 55663

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actggaatgg ccgaggtttt gctggccaca gctcaagtca caaaaaaaaa aaaaaataaa 120
aaaaaaaaact aaaaaaaaaa aaaaaaaact actagcaaa 159

<210> 55664
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-A10

<400> 55664

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catgcccagg gtcattggtg acggcttcct ccgggagtag ctccgctgac acgccgtggt 180
tgccaggag atgaagggtg tctgggggtt ctacaccggg atcatggagg acgcgcggcc 240
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cccatcggc cgcaccgtgc cgcctgacgc ggaccgggac agcgacggcg ccgtcatggc 420
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<210> 55665
<211> 461
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-013-Q1-K1-G1
<400> 55665

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gaactctgaa ctagaggacc agattaagca tttgggagtg gaagttggtg cttggcagca 180
tagggctaag tacaatgaaa gcatgatcaa tgcactcaag tacaacttgg aacaggtttg 240
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gtcctgtcgc aatgggtggtg ctatcaattt tcaactgact ccgaaggaga acagacaacc 360
gaaggatttg acggcttgca tgggtctgaa atcaagttag gcatccatgc tcttgtctgc 420
ttgtcggcat ctttgtctat gcaaggagtg cgagagcaag c 461

<210> 55666
<211> 245
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-013-Q1-K1-G3
<400> 55666

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gggtgtacgg gccgtcgaag aagggagagg agcagatgaa ggcggggagg aagaacctgc 120
 ggcgggctg cgacgagggc gccgtcgtca cgctcgccga gggagagagc atcatgcaag 180
 tcctcacgct gcgcggctac aacgtcatcg aggtgatgga cggcgtgggc gttaggttcc 240
 tggcc 245

<210> 55667
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-G6
 <400> 55667

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 atgttttgtt aacagttatt attcatcggt aacactagga ctttgggtgg acgcggcagt 180
 aagcatgtat ttacacaaat actaacacac tggctctgta ttgattggta ctagtttttg 240
 acc 243

<210> 55668
 <211> 127
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-H1
 <400> 55668

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 aagggtg 127

<210> 55669
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-H5
 <400> 55669

<213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-013-Q1-K1-E1

<400> 55672

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aactatggag aagcaaggag gtttttggac caagcctctg atggtagaga aaggggcagc 180
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<210> 55673
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-E4

<400> 55673

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gatcgccctg attgccgat tctcgctgct gttcgccggc gccatgtcca actccaagtc 300
caagacgtcg cgcgggttca ctcacggaca caccttggcc ctcagaggga acatgcgctt 360
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<210> 55674
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-E7

<400> 55674

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<210> 55675

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-013-Q1-K1-F1

<400> 55675

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ggacgcggcg gacggctccg tcgccaacgc gttctcgta ggcgccggcc acgtggaccc 240
gcagagggcg ctttcgccgg gctcgtgta cgacatctcg acgcacgact acgccgnctt 300
nctctgctcc ctcaactaca gcgccccgca cgtccaagt atcaccaagg cgtncacgt 360
ctcgtgcggc cccccgaaca 380

<210> 55676

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-013-Q1-K1-F4

<400> 55676

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aagtcacga cgcggttgac gcttggaatc aacaaagatg gaatcgatga cttcacagtt 180
 caagtggatt cggagaagat agtcctacct ggtgataaga gcgagataga tgggtggcat 240
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 tcgtctagca aaccatctga gagagaagct aaacaagcag cggacgctcc tttgctggtg 360
 aaactaagaa cagatgtgaa tagagtcaca ccgcangtgg caagggtggt ggagaagctg 420
 ccacggtggt gcacgccc 438

<210> 55677
 <211> 470
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-013-Q1-K1-B3
 <400> 55677

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<210> 55678
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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tctctactgt ttcacctgaa gcagcaccgt tggctctgag gagggacaga agacgtggtg 180
catcgcgaag ccgtcggcgt cgaacgagat cctggcgag aacctggact acgcgtgctc 240
ccaggtgagc tgcgccgtga tccataatgg cgggccgtgc tactaccgg acagccccga 300
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<210> 55679

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B7

<400> 55679

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cggcaagttc aagcatggtc acggccacca cggcaagttc aagcacgggc acggcaagtt 180
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ataccttttc agcgttactc atccttcac cgtatttcca gtaatccagc ttgtggcgag 360
tgacataatg ctaataagtg acataaataa ccatttgctg atatgctgta tatgttggtc 420
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<210> 55680

<211> 261

<212> DNA

<213> Zea mays

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<400> 55680

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gaccgacgct cattgcaaag ggacgtgttc ttaagcacac gagtttatat ctctcttagg 120
ccttgaacaa ccaaagatcg gcatggtcta cgtttctctt gtcggtggtt acttcacctc 180
attaaaaactc attaaaatga ttgacacgcg acagattatt gggttggcaa ctcctttgtg 240

ggaactgcat gcataactaa g

261

<210> 55681
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-C4

<400> 55681

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tgtggaatgg tatcacaggt aaatttggtg cagcattcag agggcacgtt gcagatgtct 180
accagatcag ctgggtctgcc gacagtaggc ttctactaag tggaagcaag gattccactc 240
taaagatttg ggatattcga acacacaagt tgaaaatgga cttgccgggc cacgcggatg 300
agggtgtacac cgtggattgg agccctgacg gtgaaaaagt ggcgctctggg ggcaaggatc 360
gggtcctcaa gctatggatg aactgactga cgaatattct atggatgaac tgattgatta 420
ttatatatct atgcttgggc gaattatata ttgtagtgat gat 463

<210> 55682
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-C5

<400> 55682

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gtgctgatat tggagttgac tttgattcaa tcaatcgcaa ggagaaaagg caggaaaaga 120
aatcaacca agcacctgtg gtgtctacag tcaccatggg caaggccatg ggagctgggt 180
ccggcattgg tcgggctggg gtaggtgcaa tggcacctcc tcctaacca atgggtgccg 240
ggaggggcat ggggtatggg cctgggtgcc gtgccggtta tgggtgtgga atgggaatga 300
accggccaat gggcatgggg atgggaatga atcaacaaca gatgaggatg gggatgaacc 360
aacaaccgat gggaatgggg atggggatga accaacaacc gatgggagga atgaacatgg 420
tgatggggat gaaccagggg atgccgatgc g 451

<210> 55683
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-C6

<400> 55683

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gggatggcgg cgccgtgctg ggggtggctgc tgacgcacga gtcggtggga ccggcgctgg 120
cggtcgtcgt caccttcggg gtgctggcct tatgcctcaa cttgtccatc ttctacgtca 180
tccactccac gacggcagtc accttcaacg tggccggcaa ccttaaggtg gccgtggcgg 240
tgctggcgtc ctggatggtg ttccggaacc ccatctgctg catgaacgca ctcggtctgca 300
gcgtcacgct cgtcggatgc accttctacg gctacgtcag gcaccgactc tcgcagaacc 360
aggcgcccag agcccgtttg gagatgcaga tgc 393

<210> 55684
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D1

<400> 55684

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gcagcagcag tcaggcggcc atggacgcca gcgcagcagg agccggcggg aaggcgaaga 120
aggcgcgggc cgggcgcaag gccggcgggc cgaggaagaa gtcggtgacg aggtccgtca 180
aggccgggct gcagttcccc gtcggccgca tcgggcggta tctgaagaag ggccggtacg 240
cgcagcgcgt cggcacgggc gccccgtct acctggccgc cgtcctcgag tacctggccg 300
ccgaagtgtt ggagctggcc ggcaacgctg ccaaagacaa caagaagacc cgcacatcc 360
cgcgccacgt gtcctgggcc attcgcaacg acgaggagc 399

<210> 55685
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-G4

<400> 55685

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gcgacatgct ggcgcgcgcc gacgccgacc gcgacggccg tctcagcgtc gaggagtcc 120
tggaagtgat gaacgccggg gagctcggac tgggcgcgct cggggcgggtg ctgcagtcgg 180
cgctccccac gctggaggcc gcgggaggcg cgctggtcgg cgcgacgag ctgcgccggg 240
cgctcggcgc cctcggcagc gctagcgccg aggactgcgc ggctattggt gagtgcctgg 300
acggcgacgg cgacggcgcc atcaccattg aggagttcag gctcatggcc gacctgctct 360
aggcttagct nggagctagc ccangctgcg cacgtacgca cgctggaac accat 415

<210> 55686
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-H10

<400> 55686

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gggatcgag cgatctgcgc cggcgccctc tctgggattc cgcgcgacaa agtcaggcgt 120
agaggctcca ggaggaggag ggaggcgag cagggcgggt gggggagatg ttcctctggg 180
actggttcta cggngtgctg gctctcctcg gcctgtggca taaggaggcc aagatcctat 240
gtcttggcct taacaacgcc ggcaagacca cgctgggtcca catgctc 287

<210> 55687
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-H2

<400> 55687

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acgctggaac aaatgacctc tctattacaa ctttgtgctg ttacttgtag atggctacgt 120

ctatctcgtc ttatgctatc aaagacatcc tgcttaaatt tgcagactaa ccgtatgctg 180
cacatctagc aaacatgctc aagtatgcac gtcttaccac atttactcag ttactctcca 240
ataaataatg ctattcatga tgccgattac ctgcttatct 280

<210> 55688
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-H3

<400> 55688

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caagtttggc aatagtagcc gggagtatgt tttgctccac gaaaattcaa cagaatgagt 120
tttgagaaaa ttcaacagaa tgaggattga aacaatcagc cttttatgct gtagaagaaa 180
aatacagcaa aaacatgagg ttttgcattg tttaaaattt ttagactgga gattggccgg 240
cttgaacttc tggctctgtga tttcttcacg tgttcaagtc tataaggata ttttgtgaac 300
caacatgtag tgctattgta atgaaaagag ctagctgcct gtagcagata gccctggggg 360
attggttgta ttcaagcatg ttttgcaccg cttgcattca catcattcgg ta 412

<210> 55689
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-H6

<400> 55689

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agttggtctt ctgaacgagt gctttggact attctttagt ggacttttca gagcacatga 120
cttgagagct gacacaaagc tcgttgcaga tgtaattctg tctaggcaag atggaggaaa 180
atgacctcac attgctggctg taacatgtgg tctctaactg ggattgaaac cctacttatt 240
ttt 243

<210> 55690
<211> 301

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-012-Q1-K1-H7

 <400> 55690

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 ctgaagagca cgacggagtg gctggagatc gggttcaaca tcatcaccat cacgggcggg 120
 ctcgctctcg tcaccatgct catcggcaac atcaagggtg tcctgaacgc gaccacgtcc 180
 aaaaagcagg ccatgcacac ggggctgcgc ggcgtggagt ggtggatgaa gcgcangaaa 240
 ctgccgcgga gctttcgcgg tcgggtgcgc agttcgagcg ccagcngtgg gccgcacgcg 300
 c 301

<210> 55691
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-H9

 <400> 55691

 agttctgaag aaattgctag tatacagaat gttcatctg tattagagca atctcagtcg 60
 caaatgatag ctgaagatag aagtttggtg ctggaaaaag aatataggaa taatattctg 120
 gatgatttac tcgaggtaaa atcatttttg actcaacgct taggggagat gaggaatgca 180
 gacacatcat ctctacagca tcaagtcaa gctgtctcac cttttgttct ccagcagcat 240
 gctcctgaca gtttgagaaa catgcttgta gagatctcgt cagcaatctc attgctaact 300
 aatcagaaga ctcttgacct tataatgac cttaactcta aaggtttctg gatagattag 360
 tttcaagctt agaagagaag atgcatcacg aagtaaactc cg 402

<210> 55692
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-013-Q1-K1-A1

 <400> 55692

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 .tggtatggtg aagatgatac caaccaagcc catggtggtg gagacattct cagcgtatcc 120
 tccccctcggg aggtttgctg tccgtgacat gaggcagacg gttgctgttg gagttatcaa 180
 gagtgtggag aagaaggacc cgaccggcgc caaggtgacc aaggcggctg ccaagaagaa 240
 atgatgcgat cctgcgcctg ctttagcaat acctagtttt catcatcaca agttttgttt 300
 gtgatcgttg ctgttatcgt gtgaactgtt gagatctgtt agcatgtgca cttttatcta 360
 tntatttggt accatcttgc tattt 385

<210> 55693
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-A2
 <400> 55693

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 cagcgcagca ggagccggcg ggaaggcgaa gaagggcgcg gccggggcgca aggccggcg 120
 gccgaggaag aagtcggtga cgaggtccgt caaggccggg ctgcagttcc ccgtcggccg 180
 catcggggcg tatctgaaga agggccggta cgcgacgcgc gtcggcacgg gcgccccgt 240
 ctacctggcc gccgtectcg agtacctggc cgccgaggtg ctggagctgg ccggcaacgc 300
 tgccaaggac aacaagaaga cccgcatcat cccgcgccac gtgctcctgg ccatccgcaa 360
 cgacgaggag ctgggcaagc tgctgtccgg cgtcaccatc gccacggcg gcgtccttcc 420
 caacatcaac ccggtgc 437

<210> 55694
 <211> 210
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-013-Q1-K1-A7
 <400> 55694

taccggtctg aattccctgt cgactccact cgtacgccca cgctttcttc cacacattct 60
 accacttttc cgatacaaat gtaatcttgt aaaaatgaga aaaaatttaa aaaataaaaa 120

<210> 55697
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-E12

 <400> 55697

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 tgggcaagaa taggccgggc tgtaaaccgc tacatttacc gctatgcgcc attcctgaac 120
 acacctatatt cggcagtcca gagatgggtg ctgaggtagg aaagcatgga ccgcagcaca 180
 gtgaaaatat gcctaaacag ctactctgat ctcagcgcct cgatctttta gaaggcgtgc 240
 ttgcacggcg tggtcttttc ttgtaaaggt tgtattctca gttcatgtct tactgagcta 300
 ctgaaggcat aacactagag aatttcttaa aaaaaaaaaa aattatat 348

<210> 55698
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-E2

 <400> 55698

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 gaaggaggac tgaatgaaaa atctgaaaaa gaagcagaag cgcgagcatc accatgatgc 120
 tgggtgctagt caaattggca tgggtgtaac tgcttaccct ggtgtttatg gggctccaca 180
 gctcaccag atacctatag caggaggaca aagggtcatg atgccagaga ttatcgtacc 240
 aaacaacatc ttgtttgtcc aaaacttgcc acacgagacg acgcccata tgctccagat 300
 gctcttctgc cagtaccctg gcttcaagga gggtcgatg atcgaggcga agcctgggat 360
 tgctttcgtg gagtat 376

<210> 55699
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-E3

<400> 55699

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agaaaaaata aaaaaagaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggcccc tttttaaaga 180
tccaattttt atttcccctt ttttccaact taaaactttt ttattagggc ccctaaaatt 240
aatttaattg ccctcttttt aaaaatcttt tacttgga aaaccttgggt ttcccaattt 300
aatccctttt taaaaaaatc tccttttctc cagtttctta aataccaaaa agccccttac 360
catagcgttt ttaaaaaatt ttcccacctt aattgtcaaa ttgaaccccc ctttt 415

<210> 55700

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-012-Q1-K1-E4

<400> 55700

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aatcatgccg ctaaccaaag aggttcaa atcgctatttg cttaggaggc tggattgatt 120
gtgtttatgt agatgtaaat tgccagatca gaactcctgg cgtaagcca gaacattggt 180
aaataccggt tttggtgtca ggatgcaaaa tgtaccatgt gtggaattgt gccacaaac 240
aagcataata tcatgtggag ttgtcgcgta gtgcacctc gtgcgtactg ncaatggac 299

<210> 55701

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-012-Q1-K1-E6

<400> 55701

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ccgcgcgcgc cgttcgtcag cctgttcccg cggatgcagc ccgtcgcgct ggacctcatc 120
gagcggatgc tcaccttcaa cccgctgcag aggatcacag tggaagaggc gctggagcac 180

ccgtacctgg aacgggtaca cgacgtcgcc gacgagccca tctgcacgga cccgttctcg 240
 ttcgacttcg agcagcaggc tctgacggaa gaccaaata agcagctgat attcaacgag 300
 gccatcgaac tcaaccccaa cttccgatac tagctagcta gctagttcgg acacacatct 360
 taattatacg tatgtatgat tcctcgtagc tgggttggtg aatagaagat cgagccggtc 420
 gncggtgtta ttagactgaa cgggtgcattt gtttggtccg 460

<210> 55702
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-E7

<400> 55702

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 tgcccgtagc tcgtccccct ttctctctcg ctcaaaagtt gctgctggag ccatctcccc 120
 tctctccgac cccaaccat ggatgaggcg caagttgtgg agtcaaagga tggaaccatc 180
 tcggttgctt ctgcatttgc tggttatcag gaagctgtgc aagacaggga tcacaaattc 240
 ttgacaaaag cagtggaaga agcatatcga ggagtcgatt gcggtgacgg aggtccattt 300
 ggagcagttg tcgtctgtaa tgacgaagta gtagtcagct gccataacat ggttctgaag 360
 cacactgacc ctactgcgca tgctgaagta actgcaatta gagaggcttg caaaaagctt 420
 gggaaa 426

<210> 55703
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-F6

<400> 55703

agaagaggaa gaacccgctc acgaacatgg ctgctgtgct caagctcaac ccctacctcg 60
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 agcttgattc caagaggacc aagcttacct cggagactgc caaggtcaag gctgccggca 180
 aggcgtagta caagaccatg gtctcggaca gtgactacac cgagtttgag aacttcacca 240

agtggctcgg agtgacgcaa tgaagcggcc tttgaagcct agttaagttt tgagtagatg 300
tgctcgtgaa cttgtattga ga 322

<210> 55704
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-G10

<400> 55704

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aagttcaagg atggctacat gatctcatct ggctagccag tgaatgagta catcgactca 120
gctgtgagac acgtcctcct cagacaggggt gttctgggta tcaaggtgaa gatcatgctt 180
gactgggacc cgaagggcaa gggtggcccg atcaccctc ttccggacct ggtgaccatc 240
cataccccga aggaggagga cgagctgcgc cctcctgtct tggcagctga tgtctaaggt 300
cccaacagcg tctcgaat ggcagtttga tcttgctcta gctaggggtt gtatctatga 360
tacggtcagt gctaagacag ttcgttccgt gcacttctgt taaaattagt t 411

<210> 55705
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-G11

<400> 55705

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ctgccgagag ggcacgccct ggctctggat gatcatggag aggctcaagg ttggtgacgc 120
gaagctagag gaaatcgaca tgcttcagga ggctacgaag caaatcgaag ggcatactat 180
ctgtgccctc ggggacgctg cggcgtggcc tgtgcagga cttatcaggc acttcaggcc 240
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atgtgccagc cgcattgtact agttttctga tttctttcta ccgaaataat acaaactgat 360
ggagct 366

<210> 55706
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-B6

<400> 55706

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gtgccagcgg ggcgcccgcc gccgtcggcg aggctccgc ccgtgaccct gctgttcaat 120
ggcgcgaggaga tgtcgggtggc cggggacagg ctgctgtaca aggtccccgg cgagcgccgg 180
ggagccgacg gcgtgtggtg cctaacgttc gggaacgcgg acatggtgcc cctgacggcg 240
tacgtgatcg ggcaccacca ccagatgaac ctgtgggtcg agtacgacct gnagcgcggt 300
cgcctttggg atcggcgccct gtcaagtgcg acgtcgnacg cgagcg 346

<210> 55707
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-B7

<400> 55707

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taaggacgac ctctgttagt ggacagccag tgagaacaac taccattcat aggcccaatt 120
caaccgtcac catcaccaaa ccgatgggaa aaagcaggca aattcagaac agcaggccca 180
aattctagga aacggtttgc tgcgatatcg caatttcaac tccagagctc atatgtcctc 240
tgaagaaagc gcctcctttg tacaaaagga gtagcacacc gtactcattt ttttttttgg 300
caaaagagag acgtgccaat tgtaacgtaa aaggcgttac caattgttgt aacaaacgat 360
ttctttgatt aaaagaaaaa gggtttgttt ct 392

<210> 55708
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C1

<400> 55708

aaaaaaaaaa aaaaataaat ataaaaagtt ttatttttaa aaaaaaaaaa aaataaaaaa 60

tgaatggatt atttaaaggg cggccgggctt tataaatatc caaagcttaa cttacacaat 120

catccgcctt cttatctatt ccatectacc tccctaaatc attcacacta actccctttt 180

ttacaacttt ctccactcta aaatccattg ccttaccat tttaatcacc ttccatcaaa 240

accccttttc tccaccatcc ctaattacct aacagccctt ccccatgtgc ccttectaata 300

at tt 304

<210> 55709

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C3

<400> 55709

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gtttttctccc ccgacggcca cctcttccag gtggagtacg ctctcgaggc cgctcgcaag 120

ggcaacgccg ccgtggggcgt ccgcggcacg gacaccgtcg tctcggcgt cgagaagaag 180

tccacaccca agctccagga ctccaggctc gtgcgcaaga tcgctgcct agacactcac 240

atagctctgg cggtgcgggg gctgaaggcg gacgcgcgcg tgctcatcaa ccgcgcgcg 300

gtcgagtgcc agagccaccg actcaccgtc gaggaccccg tcaccgtcga gtacatcacc 360

cgctacatcg ctgggctgca gcagaagtat acgcaaagtg gtggagtc 408

<210> 55710

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C4

<400> 55710

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aagcgctcgt tccagtcccc caactccttc ttcattgatg tcaagtcca gggatgcttc 120

agcataacca cggttttcag ccaactcccag actgttggtg tgtgcccagg ctgccaaact 180

gttctctgcc agcccacggg aggaaaggcg aagctcacgg aaggatgctc ttttcgccgg 240
aagggagac 249

<210> 55711
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C5

<400> 55711

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tcagcggcgg gaacgatgag gaaaagggtta ttgtctttga acgtggagat ttagtttttg 120
ttttcaattt ccatcccaag aaaacttacg agggctacaa agtgggatgc gatttgcttg 180
ggaaatacag agtagccctg gactctgatg ctctgggtctt cgggtggacat ggaagagttg 240
gccacgacgt ggatcacttc acgtcgcctg aaggggtgcc aggggtgccc gaaacgaact 300
ttaacaac 308

<210> 55712
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C8

<400> 55712

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tcgccggcgt cgacgccgac ggctgcgtcg ggttcgagga cttcaagaag atgatgtgcc 120
cccagccgca agccgaagcc ggcgccgccc ggcgggacaa ggcagaggcc gaggccgagg 180
acaaggagga gtgacgggtg tagtcagggg ggaacgggaa cggctggagt tgtttgcgtc 240
tcgcgttctt ttcacctgta cgcaggaaat actcctcctg cataagacta ctgtactttt 300
ggataaaaaa ttttatttct acatgactat cacgtagatg taaaaaaaaa aagttgcaat 360
tcgcgacttt tgccccagcc tcaaattcct aaaatagcac tgtttatttt ggtacctatg 420

<210> 55713
<211> 349

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gctctacgcc gagatgc 317

<210> 55718
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-A5

<400> 55718

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gagggcggtta aaggagggat ttgcattttc tcattgtact acctgcaagg ctccatatta 120
cttgagggtt cattcgcaca ctgacaggaa atggcgaaca ctgaagtffc gtttctttgt 180
tactagagat atattattca tctttgctct agtccagatt atcatctctg cattggcata 240
tttggtacat ttatttgatg ggtgcccaaca atattggttg aagacagcct gngcttttga 300
taatgaagtt agtttttatt atatctgtgg tgcattaaat gtttttgctt tgntgggact 360
atcgggatgc ttca 374

<210> 55719
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A6

<400> 55719

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atttcacaca cagccgacct ttgttttaggc tggattaaca ggaaggcagg agactcatac 120
tgcattgtcat gccatcacct caacttcac cgtcgataca tatgccagct ctctaccgat 180
ccacgttgaa ttccttatct ttgcat 206

<210> 55720
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A7

<400> 55720

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gagcaacgggt gcaggaaaca aggccttctgc tgcctgaac aaggcctctc tcgtgcctat 120
aaagtccccg gggctgtgtg gcatggatag atcgtcaagc gcagccgacg agcagcagcc 180
gcttgtccca ccggatcaac tggagcaggt ttaggtattc tctgtcgcca cgacctctgc 240
actttcctag aagggcttgg acagcgccga cggaaaaaaa aaaaatcgtc ctctgccgga 300
ttattaggcg cctgcatctg catccattgg tcccgagaac tggactttgc 350

<210> 55721

<211> 441

<212> DNA

<213> Zea mays

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<400> 55721

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tgatacagtt cggcgccaca aagtcaacat tgatggcaac atatgtactg taatgggttac 120
cattttgggtc cttgaggggt ggcaacgcaa gctggacca ggctttgata tcatgcaaac 180
gttgaagact ttactgctag agaaggacat aaagcaacca attgattttt tctcataaac 240
aaacctgtca gatcggttctt atgtatagaa gcagtggaag atgatgcctt accaatataa 300
tcagaaggcg aaacatctaa tctaactcga agcaacctga cattaattga gcagatatat 360
tatgcactat gttctatctg tcctttctga tagtagaagt agcagaaact gtctgcactg 420
agtttcattt tttactacgt c 441

<210> 55722

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-E6

<400> 55722

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aaggggactc tggccagctc tgactgccga ctgtcgtcta caagaatggc atgggtctagt 120

ccatccacga tgcttgtgtt ctgatcaagc ctggctgtat caaggtggca aggcatactg 180
 gtggacatat cctatcgcat ggtcacggtc gatatagatt accacatcga attttgcctc 240
 aacagcgatt tctgt 255

<210> 55723
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-E7
 <400> 55723

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 tggaagaaac agcagaaaca cactttgtat caacatctct tgcgaaaaat gtgtccatca 180
 aaactaaaac tgacatagca ctttaagcagg gtgactaccg tgacatatta aaccttacta 240
 gagtgttggt acatgggccc aagagcaaag aagaggttga cacagttatt gacaggtgtt 300
 ctggtgctgg tcatctgcgc gaagatatta tgcattacag gaaagcactg caagattgtt 360
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 aagctttgag gcgttacttt tt 442

<210> 55724
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-E8
 <400> 55724

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 cagagcttgc tgcccgcgc attgaggcca tcggctttca ggttgggcac cagctctctg 180
 agagatatac catggagcgt ccacgattta gtgatcatct tgaagcaatc aaatttatct 240
 gcaaagactt ctggtcagag ctgttcaaga aacagattga caatctgaaa acaaatcata 300
 ggggtacctt tgctcttcaa gataaccgtt ttcggtggct tactcgtgtt tctctagatc 360

catatacaga gaacagagat tcaactgaaa atgattctgc agcattgggt gatacagcag 420
cccaaacaac taccatgctt ctgtatttcc ca 452

<210> 55725
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F1

<400> 55725

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gacatggagc ttggacaaga gcttcgaagg aactcccaag gttgtcaagc cagaaagaaa 120
cgttgggaat gagaatgcta ctaaagtctc aagcgccttt gctggcacca gagagaaatg 180
tgttggatgc agcaagacag tctatccaac tgagagggtc actgttaata aactatgta 240
ccacaagagc tgtttcaagt gctgccatgg aggggtgcacc atcagccctt ctaactacat 300
tgcgcacgag gggaagctgt actgcaagca ccaccacatt cagctgatca aggagaaagg 360
gaactttagc cagcttgaga atgaccacga gaagaca 397

<210> 55726
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F2

<400> 55726

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ggacatagca gtagtgacga gatgctcagt gcaagtagta gagcagacga tagtagcagc 120
agggacgcta gatccctttt gaatggtgag gatggttaca aatctcggag tgcagtatct 180
ttgcccagca accaagttca ggctgagtgg attgagcagt atgaaccagg tgtatacata 240
aactgacaa ctcttcgtga tgggaccga gatctaaagc gtgtacgctt cagtcgaaag 300
cgttttgggg agcatcaggc ggagagctgg tggaacgaga accgcgacaa ggtctatgag 360
aagtataatg taaggagctc cgaacgagtc tcgtcggcat catcgatccg gtcaggtcga 420

<210> 55727
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F3

<400> 55727

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 cgactggaat ttcacttacc gccctacaat gaggcctcg tgggcttcta agatgtcaaa 180
 tccacttctg ccatacacat tatcttacag ctttacttgc gacctggcac atgatttttg 240
 gttcctggta cttttgctgt ggtatatcat atatgttgac taaatggctg tagaacgtag 300
 catgattgca tactgccaag tctgttaaaa aacttgggtg ttctgccaga gcaactcaca 360
 tgcaattgtg aaaatggaga acaaggaaaa tttatttggc tt 402

<210> 55728
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F4

<400> 55728

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 ctgaacgcgt tgcattgtctg gttcagtact ggaactggaa gcagcagctg aaactgctga 120
 caacgacatg gcagtgcagc acagtgcggc tgttgggcgc aaaatgcttt gattattcct 180
 gcagcacatt ctactttga 199

<210> 55729
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F5

<400> 55729

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 ttagcatatc tacatgatga ctgccgccct gcgatcattc atcgcgacat caagccaagt 120

aataactgc tggacaagga catggtgcc catatttcag attttggcat tgcaaagctc 180
 ttggagcagc cttctactgc tcctcagacc actggtgtcg ttggcaccat tggatatatg 240
 gccccagagt tagcgttcta caccaagagc agcatggagt ccgacgtgta cagctacggc 300
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 acggacatag tcagctgggc gtcgatcgcc ctgaacg 397

<210> 55730
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-F7

<400> 55730

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 ggaggaagcg gcagcgcccc ctgccgagac agaagcagaa ccggcagccg ctgagccccga 180
 ggctgctgct gctgctgagg agcccgcggc ggctgagccg gccgctgagg agcccagaaa 240
 ggccgagccg gccgctgagg tggccgagaa ggccagcgag tgaagccgtg cgccgtacgc 300
 gcaactggggc agcggacagc gggtcgggag atcgatgtct tagcgtgcgc gcgtggcggtg 360
 ccagtctcgt tgcgcgcgt tgcgcctact ggtcaataca 400

<210> 55731
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-G1

<400> 55731

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 gcatcgacaa tttaaagctg aagtctggac ggtttccatg cttttggggg cggttttcc 120
 ttgttgctcc tttaaccatt tgtcaaattt ggtagcgggt gttgggggga gtgggggaatg 180
 aagtgagaag gctatgttta taactgtgaa ccgacgggtg cagctatata tatcgatcatg 240
 cctgtgtact caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggggcc 400

<210> 55732
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-G3

<400> 55732

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 atgaactaaa tgatgtcaca gccgctagtg gtgttaatat tagggaagag gaagaacagt 180
 tactgtctgc ccctaataaa gagagccttg cctcacaaga agcacgaaga attgcaaagg 240
 aagaagaata aaatcttttc ctacgtaagg gtccactttt gaggaaacta gcataaatcg 300
 ctctgaaatg tgatctgaaa aatattattg acgatttgga aacttgaatt ttaatgagtg 360
 tttag 365

<210> 55733
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-G4

<400> 55733

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 aataccaaag taagctgctt gaaaatttga cgctagtga atgtcagaat tccttggtgg 180
 cacttgact tctcctgaat acggagggtt ccttaaggct gaaaaggac aatgatgcga 240
 gggagtggca catcaactgc tgagtctggc tcaaaagaag ttgatgatgc tgtctccgta 300
 caagctctca gaagttacac atcacatcct aagttgacc gagttcgtga agaggcttgt 360
 gatgctacat gaaagagaga gcaaccacta aaggcaccat tcgatcccca agtttaagct 420
 cttcaagggtg aggtctgttc aatttggtga gaaaggc 457

<210> 55734
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-G5

 <400> 55734

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 ccttaacca atgcgcaaaa ttggccgcag gccgttgctc ggagtggcga acgaatcgac 180
 aacgagctcg ccatcactgt gaaccgaact ctgactctct acgtagtgcg ctgcctgagc 240
 acctaccaca accagggagc agacagagcg cgtgttccgc aagttcgacg cgaacggcga 300
 ctggcagatc tcgcgggtccg agctggctgt gcttgctcag gccgtgggcc acgccgtgac 360
 cgacgactag gtgtctcgca tgatggacga ggattgagct ttaaaatttt ttaaccaat 420
 gattctaatt ttttaatttt tttttt 446

<210> 55735
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-G7

 <400> 55735

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 gacgccgtca cctacaccga gcacgcgcgc cgcaagaccg tcaccgccat ggatgtcgtc 180
 tacgcgctca agcggccagg ccgtaccctc tacggcttca gaggctaggc gcctgttctt 240
 agctgggga 249

<210> 55736
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-G8

<400> 55736

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ggaacacata ccaaagtaag ctgcttgaaa atttgacgct agtgaaatgt cagaattcct 180

tgggtggcact tgtacttata ctgaatacgg aagttgcctt aaggctgaaa agggacaatg 240

atgcgagggga gtggcacatc aactgctgtg tctggcataa aagaaggatga ttatgctgtc 300

tacgtacaag ctctcacaag ctacacatta catcctaagt tgaccgg 347

<210> 55737

<211> 51

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-B6

<400> 55737

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<210> 55738

<211> 202

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-011-Q1-K1-B7

<400> 55738

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aggaccacga tctgtacact cgcgatggcc ttgatcgccg accgtagagt gaggaaccgg 120

atcacttcca ccgaggtcac ctatgaccta gttgatctca tcttgtgcat gacgaagggc 180

aagcccatcg acgtgaccca cg 202

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<212> DNA

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<223> Clone ID: LIB3088-011-Q1-K1-B8

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cgcaaggtgc tgcgtgacaa catccagggc atcaccaagc cggcgatccg cagggttggcg 180

aggaggggcg gcgtcaagcg catctccggg ctcatctacg aggagaccgc cggcgtgctc 240

aagatcttcc ttgagaacgt catccgcgac gccgtcacct acaccgagca cgcccgccgc 300

aagactgtga ccgccatgga cgttgtctac gctctcaagc gccagggccg caccctctac 360

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t 421

<210> 55740

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C2

<400> 55740

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ggcattt 67

<210> 55741

<211> 417

<212> DNA

<213> Zea mays

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<400> 55741

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ccaaggctgg gctccagttc cccgtcggcc gcatcgcgcg gtacctcaag gccggcaagt 120

acgcggagcg cgtatgcgcc ggggctcccg tgtacctctc cgccgtcctc gaggacctcg 180

ccgccgaggt gctggagctg gccgggaacg ctgctcggga caacaagaag aaccggatcg 240

tgccgcgcca cattcagctg gcggtgcgga acgactagga gctgagcaag cttctgggca 300

ctgtgacgat cgcggccggc tgcgtgatgc ctaacattca ccaaaatttg ctgtctaaga 360

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<210> 55742
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-011-Q1-K1-C4

<400> 55742

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ggagtccaag tgcaactgta taatcatgta agtaacttca cgtccaaggt cgaaggagtt 180
gtgatattgg ttgggacgaa aatccatgct ttctggtttc atgtcacatg caacttgaag 240
catgcctacc tgcttggtta acccgctgtc agcagcaacg atggagttca aggcagtgga 300
tcttccacta gattattttg cagaagtgca tttgctgtgt ttttttaggtg acagaatgca 360
ctgcgagcta ttctttngta aagtcttttc ttctcttggtg tggaaatttt ctgcttgctg 420
tgaggtctat tgcgggtt 437

<210> 55743
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C5

<400> 55743

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ccgccctccc tccgtcatcg tcgactcccc ctgcgtccgt tcctttggat ctgaataaga 180
tggtggtgat ctgagtgggtg gtcttagttt atcatgtatc gctcgcagtt taatttagcg 240
gtttaggtgt ggatctgtga accccatggc gcctttgctt gattcgtgtt tcacctgtta 300
tgttctgaga ttcatagataa tgcta 325

<210> 55744
<211> 298

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-C6

 <400> 55744

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 gatctgggag cgaggaggag gacgacgaca atgaagatga gctccgtgcc agcggcagcg 180
 gcggtgatgg tgggtggtgg gctgctgcta tctgcagcag cgacgactga gactgggcat 240
 gcgcttgtgc cagccgtgat gatcttcggc gactcagttg atgacgccgg ctactaca 298

<210> 55745
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-C8

 <400> 55745

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 gatcatgctt gtgatcattg accgctagct tgcaatgtca tctatactgt actagtcgat 180
 cttgcacgat acgcccagat ttggagccac atagtagtcg catgtgatgc ttgtgtaatg 240
 atatgatacc gagatctgta tctatatatg ggggtccaca ggcattgcga catgaggata 300
 gctgctagac acga 314

<210> 55746
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-D1

 <400> 55746

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 cgctgcgcga gatccgcaag taccagaaga gcacggagct tctcatccgc aagctgcctt 180

ttcagcgcct ggtccgcgag atcgcgagg attcaagac cgaccttcgc tttcagtcct 240
 tcggcgtcgc cgcgctgcaa gaggccgccg aggcctacct cgtcggcctg ttcgaggaca 300
 ccaacctctg cgccattcac gccaaagcgcg ttaccattat gcccaaggac attcaacttg 360
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<210> 55747

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D2

<400> 55747

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 ttgttataaa attaaaatat tttttggagg ttatacttct gtcgttaatt atcttattct 240
 cttattgttc tatttctatt ttgctatttg actttttatt ctttcttttt tgtaaatttt 300
 ttatcttctt ttttaatttg attacttatac tggctaattt aattgttact tttattgatt 360
 cttttacatt tttttatttt ttttttttaa ttttatattt ttactttttt tattttccta 420
 ttttactata tttttatttt tatatttttt attatttttc tataatcttt tatatatctt 480
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<210> 55748

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D4

<400> 55748

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 gcagtatgcc ctgcctttgc tgtgtgatat ggctcatgct tctcgcaact ctgagagaca 120
 gttgaggggt catggaggac tagatgtgta cttaaactctg ctggaggatg atgcatgggc 180
 atgcacggca ttagattcta ttgctgtttg tttggctcat gataatgatc acagaaaagt 240

ggaacaagca ctgttgaaaa aagaggccat tcagaaatta gtgaagttct tccaagattg 300
cccagaacag tattttggcc atatattgga cgctttcttg aagataatca cgaaatcttc 360
taggctaaat acagcaatgg ctaccaatgg tttaacaaca ttgctcattg caagacttga 420
ccaatcagaa gctattgccc gcttgac 447

<210> 55749
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D7

<400> 55749

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caacagtga gagattctgg gacctcgtag gtcaaagggt tgaccctttg agaccaggag 120
acttcaacca agcgatgatg gagttaggag caacattatg tagcaagaca aagcctgggt 180
gctctcaatg cccagtctct agccactgcc aagcgcttgc gctttcccgt gaaaaatcat 240
cggttcaagt tacagacttc ccacgagtgg ttccaaaggc caaacctcgg agtgatttcg 300
ctgctgtttg tgtggttcag attgcacaag gcttggaaga agaagcggca gacccaaagg 360
gaaatgacca tctctttttg ctgatcaaga gaccagaaga gggcctgctt gcatggctct 420
gggagttccc actggtcctt gt 442

<210> 55750
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D8

<400> 55750

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60
agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aataaaataa aaaaaaaaaa aacaaataaa aagaagtaaa aaaaggataa tggaagacaa 180
catcaaataa aa 192

<210> 55751
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-E2

 <400> 55751

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 gacactgagg acctatcagg accgattgtt tcgcaccgga ggttttgatc tatttggccc 120
 ttgaatcctc tgttcaatgt gatactgctg tcagctgttt gtcttgttta ctgttgtact 180
 tatcaaattg atgttttagt cgattcgagt ctacaagatt gaactttgtt gctacagtga 240
 gtaccgacca gtggcctttt tgttgttgtt gagaaacagc cctcaacctt tagcagagaa 300
 agggactaaa catgtcttcc aacataaaaa ctaagggcct gtttgttttt gttttttgtt 360
 aagcctgttt ctttaggttt aatttgtacc gacttctact ggttctactg tgtccccagg 420
 atttcaagct 430

<210> 55752
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-B5

 <400> 55752

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 gctacgtgac tcaagttttc tagaatttag ctgcttatat ggtcatggaa agacttggtt 120
 atgacgtgaa caggtgcagc tgatgcaaaa cccttgatct tgtctgcgaa aatcggcatg 180
 gccaaagacca ttcgatttca aagctaacag atgctgctgc acagaaattg ggtcgtccct 240
 ttttgacct ctatacttcc gatatggaaa atcatataca gctcagttag tctgtctaac 300
 attcgagttc aattgctcca atacaaaaat gcgatccaat 340

<210> 55753
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-011-Q1-K1-E3

<400> 55753

agcaaacttc aacaaggaca atgaggtcat ataacaatat attggcaatg acacagtcgg 60

ggcattcaaa atcccccttta tttatcgggtg ataagaaaat cactctgtca tggatggagc 120

agcccaacaa agcagcagct acgaaagcag gggggaagag gtcacaacct agtacaaatg 180

ggaatgaccc tgcaaacaag aaggggagag gaggactgca aaaccagcta gcgaacagag 240

ctcttgaagg actgtctcat gttggaagaa gcatgtgacg aggtttttgc atgagtagcc 300

tacgtggttt tttt 314

<210> 55754

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-E4

<400> 55754

cggacgcgtg ggcggacgcg tgggctcgta acataattgc ccggtccctg ttctagtgtg 60

ggcgcagtct ggtttggttt gacatttggt ttcaaggttc atccttattt gcattgc 117

<210> 55755

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-H10

<400> 55755

catgggagca cgcatacgcc gccctaggcc aggtgaccag cttttggccg ggcccagggg 60

tggcgacgag aatccaatag tgaagctttc tatgtgttgg cagataaact gagcagttag 120

gggtcttgac ggtagcagag taggtcctgg ctgtgttggg aggtaaacta aacagtgagg 180

ggtcctgacg tctgcaaaga gcactgagaa aaggcacatg aggggcagta agaggacagc 240

aagtcctact gttgttggaa aataaattga gcaagtgctg gtggcggcta tagaaaaagg 300

cacgaggggt 310

<210> 55756

<211> 177

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-H11

 <400> 55756

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 tgtttatttt atgatgagtg aggtacaaac ctacctatta ctatatatgc ttccaaaaga 120
 cacgtcttat cttcactgat atactaagta ttattttata aattatattg acttcct 177

<210> 55757
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-H12

 <400> 55757

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 gcctgttcgt cagtgcgaat ttgatgtgaa gaaatccgc aaaatgacgc ctccattccg 120
 cgtcatcctt cacaatgaca accacaacag gcgtgagtat gttgtccagg tctgatgaa 180
 agtgatccct gggatgaccg tccacaaccc gttgaacatc atgcatgaag cgcattgtgaa 240
 tcggttgatca gtggtgattg tctgttccca gtccataggct taagagcact tcacgttact 300
 taagggc 307

<210> 55758
 <211> 121
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-H2

 <400> 55758

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 aaacgtccct gcacngtaca ataattctcc acttccaaga ctgctaata tggccattcc 120
 a 121

<210> 55759
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-H4

 <400> 55759

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 ggatgaactt ctataacact tcacaatctg atagtcactt gctatccatt gaaatcgctc 120
 tacaaggttc ctctctgata gtcacttgct atccattgaa atggctctat aaggctcctc 180
 tcttggtggc ctctgttttc ttggttatgg tagtaccac ctagttggag gtgcggtaca 240
 gtttcccaaa aacatggagc atagcgacaa cagctatgaa cccaatgctc atgatcagaa 300
 aagtgtttgg tgacattttg cggccgcgag cctcatcggt gtagaactgg agcatcgag 359

<210> 55760
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-H5

 <400> 55760

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 gttgtcggga ggaacttcta taacacttga caatctgata gtcacttgct atccattgaa 120
 atcgctctac aagggttctc tctgatagtc acttgctatc cattgaaatg gctctataag 180
 gtcctctct tgggtggcctc tgttttcttg gttatggtag taccaacctt gttggagggtg 240
 cggtacagtt tccccaaaac atggagcata acgacaacag ctatgaaccc aatgctcatg 300
 atcagaaaag tgtttggtga cattt 325

<210> 55761
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-H9

 <400> 55761

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 agaaaaaaaa aaaaaaaaaa gaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg 120
 gcgccccctt taaaggatcc aagtttactt ccccttcctt ccaacgtaat aattttttta 180
 tagtgccacc taaattaaat taactgcccg ccgtttaaca acgtcttgac tggaaaaacc 240
 ctggctttac ccaactaaat ccccttgcaa aacatcccct tttccccagt tggcttaaaa 300
 acaaaaaggc ccgcaccaat cccccctcca aacattttcc cacccttaat ggcaaatgga 360
 accccc 366

<210> 55762
 <211> 418
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-011-Q1-K1-A1

<400> 55762

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 ccaaggaact tgtgcattcc ttatgaatca tgagaagacc atgaagatgc acacaaattt 120
 gcttgacttc tgaccagtaa taattagcga aagaaagaaa atccagaacc atgaatcagc 180
 ttgatagcag taacaaattt gcttgacttc tgacgagtaa gaaattggca gcaagttcag 240
 caggggccag actaataaat cagcttgata gcaccccttc agcgggtgcct tggacttttg 300
 cggttagaag aggtttataa ttntatatga tgaaattatg tgcattctca gttgtttttg 360
 cctcactgct ctttgcggtc ctggataaac tcgaagctga cctatccaag ttcgacga 418

<210> 55763
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-A2

<400> 55763

agacaaaatg actgcagggt cggttttgaa taaaaggatt cgttcatgaa aaacggaacg 60
 ctgcagtcac tttgtctgag gcgcttaagg aggcccgatc attcaggacc gaagccttct 120
 gatgtaccca tctagcccta gagatcagac tatttataca cgcaatgttc aagttctttt 180

cttttaaaaa attgtccaaa atatgtgact gtacaataag ctaaaatcgc actatgtgga 240
ctatatatta gt 252

<210> 55764
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-A5

<400> 55764

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ataagtgagg tgcgtgtcga aggactggaa actatggact accttgacaa cttaaaggca 120
taggaacggt tcacagagca aggcaatact aatgggttttg aatcagaagt tgacatagtt 180
taccttgctg caccctccaa aattgctatc attgatcatg agaagaaaag aacatttgctc 240
gtgacataag aagggcttcc tgatgcttgt gtttggaacc cttgttacia gaaggcaaaa 300
gctatgcaag attttggg 318

<210> 55765
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-A6

<400> 55765

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gtggatctga cataagttag gtgcgtgtcg aaggactgta aactattgac taccttgaca 120
actcataggc aaaggaactt ttcacagagc atggcaatgc tattgtcttt gaatcataag 180
ttgacaaaagt ttacctagct gcaactcttca aaattgctat catcgatcat gatacgaaaa 240
gaacatttgt cgtgacaaac gaagggcttc ctgatgctgt tgtttggaac ccttgggaca 300
agaacgcaga agcaatgcat gatttcgtgg atgcacaata cattagcatg ctgagtagta 360
tagcctgcat ctgttgagag gtctattact cttgaaac 398

<210> 55766
<211> 385

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-A7
 <400> 55766

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 tgtcaaagat aaccatgaag aagctgggtgt tggggcaaag cttgctgtag agttgtgcc 120
 gaagcttgaa gcaattgatg gtgactggga ggacataatt gatgacttga ttactgcatt 180
 tgagaagcag cacaagcgga gacttgcata cagcatttca ttctactaac ttgtatagtc 240
 ccgtttggac agagatgttg cagtggatgg ttggtaactt ggcattgtag taagcaactg 300
 catatgagtg aagcatcatg tcgtggcagt gttgcttgaa ttcttccacg cttacatttg 360
 cctgtgctag cctgtttttt aaaaa 385

<210> 55767
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-A8
 <400> 55767

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 aaaaaaaaaa taaaaaaaaaa aaaaaggggc cccttttgca atttatTTTT aaattgtaag 180
 cggccgtttt aaagattcaa atttttggaa cgcttttttg aaacgtaata atttttatat 240
 tggggccctt aattaaata aatgggccgt gttttaaaaa cgtttttaac tggaaaaacc 300
 ttggcgtaac caactttaat ggttt 325

<210> 55768
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-B2
 <400> 55768

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ggcggcgcg gcctcggtcc tccctgccag agcgcgtcac gccgcccgtg ctaccgacgg 120
 ttaccgtggc agcgcagctc gtgcgctgaa gcgccgtcaa gccgctcctc ctccttcacg 180
 tggcttgccg tcccggcgct accgccagtg cagagcgcac ccgtgctgcc atggcgtgga 240
 gccaggtcg tgccgtcacg ggcacggctg ctgccgccac cacggcaagc cggagtgcag 300
 cagctgccga gggactgct gcaggcccag agcgcaggag ccggccgcca aggacaccaa 360
 gcggcgctg gcgccccgga accactgccg gccggtgctc aagggcgcg cgttcacgt 420
 ctgctccagc tgcttcaagc tgggtgc 446

<210> 55769
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-011-Q1-K1-B3
 <400> 55769

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 gttggacgtc ctgtacccta gcgaaggcat ccatcggcga tgggagagtg gttacaggat 120
 aacttccaca gcggccacca atgaccaagc tgctttcatc ttgagcatgc cgaagcgcaa 180
 gccgatggac gagacgcaag aaacccttcg gacctctgcc tttcccagtt cacatgtcaa 240
 ggagaaatgg gcgaagaatc tctacatagc ttcgatctgc tacggacgaa ccgtgtgctg 300
 atagtcgaag agagggggcg cccactgac tgagtacggg ggcttgctgc aagagattag 360
 agatgtgaga tgaacattta atcaaatca gctctaata tgataggatc agttgatctg 420
 aa 422

<210> 55770
 <211> 358
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-F2
 <400> 55770

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ccatgtgtgg gctctgaaag ggcggaagg ggctaagcaa gggcggcgcg aagcgtcacc 120
gcaaggctct ccgcgacaac atccagggca ttacgaagcc ggcgatccgg aggctggcga 180
gaaggggcgc cgtgaagcgc atctcggggc tcatctacga ggagaccgc ggcggtgtca 240
agatcttcct cgagaatgtc attcgcgacg ctgtcaccta cacggagcac gcccgccgta 300
agaccgtcac cgccatggac gtcgtctacg cgctcaagcg gcaaggccgc accctcta 358

<210> 55771
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-F3

<400> 55771

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gacgacgatg cgctcgccgg acggcaagaa gctggacatg ctagccggag gaggacctcg 120
gcagcatgcc ctacctcaag ggcaccatca aggagacgct gcgcctgcac ccgccggcgc 180
cgttcctcct ccgcactac tccaccgcg actccgagat cgacggctac ttcgtcccag 240
ccgggacgcg cgctcctcgtc aacgcctggg cgctcgggag ggaccgcacg acgtgggaga 300
agccggagga gttcatgccg gagcgggttcg tgcaggaacc cggcgccgtg gacgtncaca 360
t 361

<210> 55772
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-G1

<400> 55772

caacaccacc aactccctgc cgggactcct gctcgccctc tgatcactct gagggataaa 60
ttaaatacca tctctatcta tatactacgt atcatccttg tcgtccgcag tcattcagtg 120
caaccgtgtg tatgtatgta tctacgtacg tattgtatct ctatcccatc catggccgta 180
tgtcacttat tatatatata caacatatct catc 214

<210> 55773
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-G10

 <400> 55773

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 agctttgaca gcctactcgt gagcctgcag gagaagggca acagcctcaa gatggcgagt 120
 gtgtaaagct gagaagattg ggtacctgcg agtgaacgat ttactaaat aaaatgctag 180
 cttgctggct ctctctcttag tttttacgct gtacctttgc tctcaatttt ctgaatcggc 240
 tttgtatccc aggcttgcca gaacgtcatt gtgtagccac tgttcatggc ttgtaattgc 300
 tacggggtat ccgataacgt cattgtggat gatgcctgtt tgccctgact cttgaactca 360
 atgtcgccat gtggtttcta tgc 383

<210> 55774
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-G11

 <400> 55774

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 ctgcatgctt tactttttgt ggacctggaa ggcattgtctt tgtataaagt tgaagtacct 120
 tgaagtgctg ctaactggaa ggcttcagag acctattttt cttcacagca tccaagacaa 180
 tgttcatttc atttcaaccc caccattact cttttcctat cataaagaac catgtgttcc 240
 catgaataga tgtgacacaa ctcacaaaat atcagtaaag ccatactaca gaacgagaac 300
 tgtaggata gtgattacat gcttgagaaa tgcaatgtca acataaagag cttgacacga 360
 gatcgattgt cgaggcacca tctattggga ctgctatacc caaaaggtgg atcaatgcc 420
 acata 425

<210> 55775
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-G6

<400> 55775

aaaaaataaa aaaactatta aaaaacaaat tatectttca aactttaaaa aaaaaaaaac 60
gggagcgggtt ttaaaataaa taccacacct actacataaa agcacacaac ctctataatc 120
aaaatttttc taactataaa aatcaagctc ataccactc acttatagcc tacataaaat 180
gctaactaac cagctcttct cactcctttt actcttgatc acactatttt atcaatgaac 240
aattacttta taccocatcc tta 263

<210> 55776

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-D3

<400> 55776

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ttcaatggaa gtactcgctt ggctcattca agctcgtagg ccatactgct ccagcgcagg 120
cagcatcatt gttaatagtg gggccttttg tggacttctg gctgactaac aaaagagttg 180
atgcttttaa ctacacatca atagttacgt tctttatcgt gttgtcgtgc ataattgccg 240
ttgggacgaa tctaagccaa ttcatatgca tcggaagatt cacagccgctc tcgttccaag 300
tcctaggcca catgaagaca gttctggtgt tgaccttggg gttccttttc tttgggaaag 360
aggggtcaa cttccatgct gcccttggca tgcttctggc tgtgatcggc atgatctggt 420

<210> 55777

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-D4

<400> 55777

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atacttacag ctacggcgta acaagtcgca atccctctca gagagtcaga aatggcatac 120

ctcatagctg tttcgcggct ggcagacacg agccagtcgc agtgcgctgg gtccggctga 180
tcttgagctc ggcacgtctt cccggcggag gagcctgctg gactgacaag ccgcggcagg 240
cgctctgcgt accaaacggc ccgtctgcag gcgatccggg tccatattgg acggccgttc 300
acccgcgcaa aggcgggtac cgacttctc 329

<210> 55778
<211> 97
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-E3

<400> 55778

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aaaaaaaaat atcaaaactt tttaaaaaat taatact 97

<210> 55779
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-E5

<400> 55779

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gtagggggct gttaaaagga gactggtggt ctctgccatc aaaaccctgt gcagaatagt 120
ggtacgtgct tctttacttc cctattagat tcagtttatt tctatgtaat gcttgttttt 180
catgtaacat ccttttagatt ttgttgttca gtgatatctg tctcgcataa tttgtcttac 240

<210> 55780
<211> 195
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-E6

<400> 55780

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aaaaaacacn aaaaaaaca aaaataaata aaaaaaaaaa taaataaaat aaataaaaat 120

aaacaaaaat aaaaataaaa taaataaaaa acaaataaaa taaaaaataa taaaaataat 180
 aaaaaacaaa ataaa 195

<210> 55781
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-E9

<400> 55781

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 ccaccggcac tggagctgga gggaaggcga agaagggagc ggccggtcgc aaggccggcg 120
 ggccgaggaa gaagtcggtg acgaggtccg tgaaggccgg gctccagttc cccgtcggcc 180
 gcatcgggcy ctacctcaag aaggggccgct acgcgcagcg cgtcggcagc ggtgcccccg 240
 tctacctcgc ggccgtcctg gagtacctcg ccgctgaggt cctggagctc gccggcaacy 300
 ctgccaaaga caacaagaag acgcgcatcg tcccgcgcca cgtgctgctg gcgatccgca 360
 acgacgagga g 371

<210> 55782
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-C8

<400> 55782

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 ataataacca tgatatacaa cttatataaa ttattatgtt atatttgtac atttttagcta 120
 aactatttga catctaatat aattgtaagt tcataagcgt agatatattt tctagatatg 180
 agcttagcgg taggtaattt tgcttatcta ttaccgtaat aagcttgatg actgaggtag 240
 acatctgatt tatatttaaat ctaactgttt ctctatgtga atggatacat atattaactc 300
 aggtagcact acaactagca atgtatggat gaattgaagg aagtaaaaga aggcagacaa 360
 tcttataaaa actctgcat 379

<210> 55783
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-B10

 <400> 55783

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 cactttatca ggtgggtcaga agagtagggg tgcattcgcg aaaataacct tcaagaagcc 120
 gcacatcatt ctcccttgacg agccttctaa ccatcttgat ctggacgctg ttgaggcgct 180
 catccagggt ttactcattt ttcagggagg ggtgctgatg gtgagtcacg atgagcatct 240
 tatcactgga agcgtggacg agctttgggt ggtgtcgga ggcagggtga ccccgttctc 300
 gggcactttc aaggactaca agaagatgct caagtaacaa aaacatgtat tatcgaccat 360
 agcctatata tctatatgct tgctattacg gtgtattacc gtataaattt tggagtaaag 420
 catcgaatta ttat 434

<210> 55784
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-C1

 <400> 55784

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 gtggccaacc tacgcactcg gtggactgtg atgatggact ggacttaaaa taccaccttt 120
 atccactaca cataccgtca cactacacct gagtttatgc ctccaatcat aagcggatga 180
 ttaactcttt agaaagccaa gatcactctg accacaaacc gaaaacaatc cttgaagaac 240
 acttcttctc tatgaggcca ccgccccatg atggatggct tctaagagta aaccgcgttc 300
 tcacaacat cttacgatgt atttgcattc ttaaaatgtt agttgatgat ggcattctca 360
 cgccaaaggc agattgattg atgttgtacc tggagcacc 399

<210> 55785
 <211> 315
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-C12

<400> 55785

aaaaaaaaa aaaaaaaaaa aaaatatata tttaaaaaaa aaaaaaaaaa aaaaaaatgg 60

ccgttttatat ataaaaaaat acataactaaa aaaaacctcc aaccaattta aaatctcaca 120

ttcttttcttc cccttactta caacctctta cctttttattt acaaccacct aaattcattt 180

aacttacctt aatttcacat caatccacct gcaaaaacct tctctttccc taattaaatc 240

cctttccaac acttccccct ttatccatct ttcttataat ttaacaacct taatcctatc 300

tcctttccca acttt 315

<210> 55786

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-C2

<400> 55786

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aaatatacat ctgatataaa ttattatctt atattactac attttaccta aactatttta 120

catctaatat aattataagt tcataatctt atatatattt tctatatatg atcttcaact 180

atagtaatct catcttattt attaccaaca taatctttat tacttaaaaa aacatcatat 240

ttatatttaa tctaactatc ctatatttta attcatacat acataaact 289

<210> 55787

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-C3

<400> 55787

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tttgtaccac tttgcactgc ttttcgtctc tctccgattc cgtcgaagca caaggggtggc 120

tgctggttta ggctgcaaag gcagaaactc ggcagtcgta gggaccatta ccagcataga 180

gcaagcacc agctgagga gtncatgga ggaaagatac ccagaggagc gacgcgagcg 240
gaggccatca agcggggacg ccgagcaggc tgattacacg cggctacagc acgtgccatg 300
catgctgctt cgcgac 316

<210> 55788
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-H1

<400> 55788

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actgaattct ggggtggcgca gaccatcttt tcacctaacg gtgatggact aagacgagat 120
catgccttac cgctcggagc tatgacatgg agatcgctga aatatgtgct ccaccacaag 180
agcacaactg catgctcatg aacaggattg tgcacaacat tgctcgtggg gaacaagagg 240
actggtacag gcgcc 255

<210> 55789
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-H3

<400> 55789

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ctgccaccac gtttcggctg cgaccccttc gcccggaata cgaatgatga gagcaggata 180
aggatagcaa aagcaattat gcgctgcaga agtcctttgc attgcagttt tccactggaa 240
ggttgatg caaggtacaa aagataactt gtagacagaa accataatgc ctgaccctgc 300
ttattcgatc tcaatta 317

<210> 55790
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-A1

<400> 55790

gcgtccggca gcttttagctg aacagcagca tatgcatgga cagtcttcta gtgcatcggc 60
ttgccaggca acaaggtttg acatccttag cagatcagac agatccttta cggaggatct 120
gagtgtagtt gggaacagtt cttcatactc cagagtcgac gaaccgtcta gcagcagtac 180
gcaccgaaca gtagaggggtt caaacggctg gtgggccgag gtggctgagg ctggaaccag 240
gatcgctgaa tctgatgtta cagtggaggc tgggtgttggc aattcgtcca cttcagctgt 300
gtccaacatt ggctcgggca gtgttctga tagctttcaa gagcagatga tgctagccat 360
ggctctttcg ctggctgatg cgcgtgctat ggcaggttct ccaaggttag cttggcggta 420
gcgttt 426

<210> 55791

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-A12

<400> 55791

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tccgatgtac acttctcttg gtgttatgac aaggggaaca atcattgagg taaatgtcag 120
tgagcttggc ctggtaactc ccgctggaaa agttgttttg gggaaatatg ctcaagttac 180
aaacaacccg gagaatgatg ggtgtatcaa tgctgttttg ctagtgtaga accatagtga 240
gattttgttt atgggtgatga atcgccccat ttgtatctgc tcttgataag atgctccctt 300
ttgaccgatc tcatggctct tccnnaataa aaaaaagttt aaaataaaaa 350

<210> 55792

<211> 525

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-A2

<400> 55792

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gatcttctag atgcattctg ctttgcccga cagacaatgg ttgacgac ctgtagcaat 120
atcatgacat gattccttta ctagtttagat attggagtgt cagtttggtg aacaggctat 180
ttcatgactc tcatattacg acagaacacg atctagcatg ctagtaccgc actcgaacca 240
gtaagagggtg ttcaaaccgg ctttggtggt cctgagtgtg gcatgaaggc tttggaacta 300
ggaatcgctt gaatttcttg atgttaccga gtggaggctt tgggtgttggc aatttcgtcc 360
actttcagct tgtgtccaaa cattggcttc gggccagtgt ttctgataa gcttcgagga 420
gcaagatgat gcttagccat ggcttctttc gcttggtcga tgcgcgtgct agggcaagtt 480
cttcagggtt agcttggcgg tagcgtttgt tagtaggcca tttta 525

<210> 55793
<211> 388
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-010-Q1-K1-A3
<400> 55793

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tttacagcaa acgaccacca gtaagaacct atcaagcatg ctacaaaaac cgaccttgct 180
gcaatggatt ttcatcacac aaatctaaca ataagtctct gtaatgtaca tccacctacc 240
tacacatatt gcgccataca cgcactgttt gttaccatat catctggaca gtcattcttt 300
catcacataa taattgctct tctacgactg tcacaactat cagtccaaag accatcttca 360
aatactgaca tttcaaaatt ttgataca 388

<210> 55794
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-A4
<400> 55794

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gagaagggtga aatgttgagt tgcagaatga ccaacttgta ctggaaggag tctcggggtg 120
 atgagagatg agaagggcac aaaacagaca gcgaacatga tgnngggcac tcatcgacaa 180
 tgtgagtatc tagcagcacg gttttactcc ttatgatcca ataaggagct tctgcagtt 240
 caacatcgtg cagcagcctc agttctattc tcagcaggag gaccggaaag acttcaacga 300
 ccaagggtgga agataaatat tggacctctc aagcttcagt acttatccgt gatgatgcat 360
 gactgccagt gagaaactga gctacattac ttggggatta tatgtaaaga ctagtactac 420
 tgctttatat atgtgcatgt gcgcaca 447

<210> 55795
 <211> 165
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-A6
 <400> 55795

gttttgcgcc atttgagctg ggggatgcat ctgtatcggg ccataaatgt agtatctccg 60
 ttttgaaaaa ggtttgagtt taggaaaaga attgtttact gtagtgattc aataaccctt 120
 caccctgtct gcattacaac ttcatatat gatgtgaacg ttttg 165

<210> 55796
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-009-Q1-K1-G6
 <400> 55796

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 catatttctg ccagccagtc attgctggac ttggagatga caacgtacca ttcatttgta 120
 ccatggactg cctcgggtgca aaggagctgg ccaaggattt tgttgtttct ggaacagcat 180
 cagaatcttt gtatggtgct tgtgaatcca tgtacaagcc ggacatgcaa cctgatgaac 240
 tcttcgagac tatatcccaa gccctgaatt catcagtaga ccgtgactgc cttagcggat 300
 ggggtggcta tgtgttgatt gtgacaccga ctgaagtgag ggagcatgtg attaagagca 360
 ggatggacta aataatggcc actagaatta ttagctggg 399

<210> 55797
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-D9

<400> 55797

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 agcccgttgt tttctcaatt cataaaggac ttgtcagttc caaaagcgac cagggtgaag 180
 gctatagccg aaatatctgc tgacgctggg ttttcagatg ttacaaagaa tttcttggct 240
 gtcttggcgg acaatggcag gctgaaatat attgaacgca ttgctggagag atttgttgat 300
 ttgactatgg aacataaggg ggagatgaag gttgtgggtca ggacagttat ttcactcacc 360
 aaggaggagg agaaagaact c 381

<210> 55798
 <211> 326
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-E10

<400> 55798

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 ccttgcgaac gaggtcgagg tcatcaggcc gaagaagagc gacaggatca agatattgaa 180
 cggcaatttc cgtgggtaca caggaaagct cataagtata gatgggttctg acggaataat 240
 gaggcttgac gaaacatacg aagttaagat cttagatatg gtgattttgg ccaaactggc 300
 cacttaagat cttagatgta tatgtt 326

<210> 55799
 <211> 295
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-E2

<400> 55799

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ctcaccttag tctacataga ataccgtccg tttttattgt agcgcaagga ccactccttc 120
tcctatctac ccccttacct cgtgatggac ctcttccgc accagacgtg caacctgctc 180
aagacctctt tctttctttg cctcgtgctc tatgacgcgc gcctgttctc ttcgctcatg 240
tccaacacct ttaactacat ctacaccagc aactgctca agatccctta cctca 295

<210> 55800
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-E7

<400> 55800

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tcataaaaaga cttgtcagtt ccaaaatcta ccatggtgaa ggctataacc aaaatatttg 180
ctgacgctct tttttcagat cttacaaata atttcttggc tgtcctcgcg gacaatggca 240
ggcttaaata tattgaacgc attgcggaaa gatttgttta ttttactatt gaacataagg 300
gggaaatgaa cgttgttgctc aagacattta tttcactcac caaggaggat gataaagaac 360
tc 362

<210> 55801
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-E9

<400> 55801

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cgagacattc acctggcttg agctggcttt tgctatagcg tgcaaggggt tgctgggtgt 180
 cgtacctacc tgacttatca ttatctgtgg ttacattctg gaccctgtat tttctatgct 240
 ttcatgtctc tctactttct agtattaatt atcaataagt tggtttgga tggttgaatt 300
 gcatccaa 308

<210> 55802
 <211> 262
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-F12
 <400> 55802

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 tgttcgtagt cgttcctcca gtaccagtag tagcctagat aagaggctgc agttttgacg 180
 gccattttct tttagctggt gtttggaata aaagacacaa tgttggaaca cttggaactc 240
 gcgcaaaaact ggaatccgnt tc 262

<210> 55803
 <211> 284
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-009-Q1-K1-F5
 <400> 55803

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 cgcattggtt taatcgtagt gaagcatagg gttcactcaa caaactaggc agcccttttc 180
 tggtttagtc agtgcgtcaa agcaatcgag ttgttcagaa ttttcttgtg ttgcaagatg 240
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<210> 55804
 <211> 225
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-F9

<400> 55804

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tcttctcgac tcagaattca acgcanaact ttcagatttt ggcttggcaa aagctgggtcc 180
aactggggat aaaacccatg tatccacaca agtcatgggt actca 225

<210> 55805
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-G12

<400> 55805

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gtgccgaccg tctgcggcgg cgaggtgatg gcgatggacc cggacgcggt ggcgaaagcc 120
ttcgtggagc actactaccg gacgttcgac accaaccgcg cggcgctggt ggggctgtat 180
caggagacct ccatgctcac cttcgagggc cagaagttcc agggcccatc cgccattgcc 240
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cagccgtcgg ggccccaggg aggcattgctc gtcttcgtct ccggttccat ccgcaccggc 360
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<210> 55806
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-G3

<400> 55806

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ctaataattc 249

<210> 55807
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B8

<400> 55807

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ctccatcatc ttcttctccc tggctcctg cttcttcac tccatcgagg tgcacatcac 180
cacttactat ccgtctagcc ccatagccgg gaccagatc tttcttcgtt acagtctgcc 240
tttatatact tatatacata cattctcatt tacattccct ctaccacttt tttca 295

<210> 55808
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B9

<400> 55808

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cattgtccac gcactattca agatcccgtg tcagacaaca ggttgccatg gtgaagaagc 180
acatgacaga gaccgagtca atacccttac caccaccatt gtcctgtgct aaagaccgt 240
ccaagctgga tcttatgac ctatcaaagg tttatttccc gcacgaagt cgttcttgac 300
tcaagctcgt catcaccgac caccacacc tgaggcgaca cgcgacaatt aaacgtcaca 360
ctgcagcgct gtcttgatcc tcttgatggt gcagaatat 399

<210> 55809
<211> 428
<212> DNA
<213> Zea mays

1. *What is the purpose of the study?*
 2. *What are the research questions or hypotheses?*
 3. *What is the study design?*
 4. *What are the participants and sample size?*
 5. *What are the variables and measurements?*
 6. *What are the data analysis methods?*
 7. *What are the results and conclusions?*
 8. *What are the limitations and strengths?*
 9. *What are the implications for practice and research?*
 10. *What are the ethical considerations?*

<400> 55811

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atcttgagaa aggccttcttg gtgggctaaa tgacgaaaga aaatatccag gactgggtgg 180
tcattcaaac atcaactgag ctatccagta gccaggtttt aagtgtgttg taatgcttca 240
atgtgtttca ttttccaaag acctgagctt cgcttgtgat ttgttccgag ctgtacgggtg 300
tcgattttgt gtatataata taatataacg aaataaaggg tttttattaa acccccctta 360
attaaaaa 368

<210> 55812
<211> 216
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-C8

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tattttttta tcttattcct atgctacttt ttaaaa 216

<210> 55813
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-D4

<400> 55813
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ctacacagat gtgtttagc atatgcttcg gatctactat tttctggggg gagccttaac 180
cctcatcggg agaagggttt gaagacatac tgcctcagtc ttgaccattc catctggttc 240
caciaacctg tgaaggctga cgaatggatg ctgtatgtga tcgagagccc atctgcgcac 300

ggtaggtcgcg gtttcgtcac cggacgcatg ttcaacaagc aaggagagct tatcatgtcg 360
ctgacccaaa aggcattgat tcg 383

<210> 55814
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-D5

<400> 55814

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ctcgagggga actctcaaac gaccagtctc tacacagatg tgtttagca tatgcttcgg 120
atctactatt ttctggggtg agccttaacc ctcatcgga gaagggttg aagacatact 180
gcctcagtct tgaccattcc atctgggtcc acaaacctgt gaaggctgac gaatggatgc 240
tgtatgtgat cgagagccca tctgcgcacg gtggctcgcg tttcgtcacc ggacgcatgt 300
tcaacaggca aggagagctt atcatgtcgc tgaccaaga ggcattgatt cgaagggaga 360
agccgggagg tccaaatccg agt 383

<210> 55815
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-D6

<400> 55815

ctggaacacc tgcagaagca tctcgattcg tccttgaagc acataagatc tacaaggaca 60
caacacatgg ttgatcaact gacagaactt cagaaaaagg a 101

<210> 55816
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B5

<400> 55816

tcttactcgt tggaaaaaaaa aaaaaattaa tttaaaaaaaaa aaaaaaaaaa aaaaaaagga 60

aagtttttatt ataaaaataa aaaaaacaaa aaaaaacata ccctaaatta caaaacctta 120

aattatttta taataactcc taaa 144

<210> 55817

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-A10

<400> 55817

cgttaaactc atgcccttct tgttcataaa taatttttca cacaaaaaca aaaa 54

<210> 55818

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-009-Q1-K1-A12

<400> 55818

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tggtgccggc cacaccacc tttccttaac ttcctcaact actaccttct actccttttc 120

ttttaaaaa ttacaatgct taaattcaaa ccattttttc tttatacatt tncaatctta 180

attaattttt tagattccag tcctattggt tttgccttct atatcccaat atataattaa 240

tatttacatt ccttttcatt cttattttca tattcacaaa tcaaattctt tgatttatga 300

aagacgaaca acttctaaaa cattttccaa agatgttttc attaate 347

<210> 55819

<211> 329

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-009-Q1-K1-A2

<400> 55819

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agcgtggttg agtagtagta gtgctgtagt aaggtggaaa ttccaccgtg ggagaagggt 120

gtgcacatat gaacaagcaa ctgtgaggtg agtgtgactc gccggcgtaa atgtagacta 180
agatcgccgg tgcaggggtgt ttgatctagt agtctagtta ctatataggt ttgctggaga 240
aaaaaatgat gtaggatttt gactgagcag agcaggggggt ctgaaaggtg gaaaanaaaa 300
aaaaaaaaat atttattttt aaaataaaa 329

<210> 55820

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-A4

<400> 55820

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gcatccgtaa ttctctcttg tggctgcgtg atgaattacg aactcttcca tgcacttaca 120
agtgccgtca tgatgctgct gcagatttga tccatttga tgcttataca aagtgccttt 180
tccgagtcgg ggattacaag acagtaaaat ctccaccagt tcatatcagt ccgcttgact 240
taggccccaa atatgccgat aaactgggac caggctttca ggagtactgc aagacatacc 300
cagaaaatta ctgcttagcc cagcttatct attggtatag ccagaattca gaacctgaat 360
ctagattgac aagagctaga aaagggtgca tgtcattgcc cgatgtctcg tccttctatg 420
tg 422

<210> 55821

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-009-Q1-K1-A5

<400> 55821

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agtttatatg gcgcgccgag accgccctca ctactgacgg ccgagaagga agaagagatc 120
tcaaggaacc tgaagaagta tagcaagaag tacgaacaag aagaccagga tgcattcaat 180
cagttgagcg agcaggaccg caagaggcgg acacagcttc aggaagaatg ggactcatgg 240

gttgccaagt ggaagcagat gcatgaggag gagcgtgttt acaggaggga gctcanggat 300
 ggggaggcca gcgacgacga ggaagagtat gaggccaagg aagttgaggt ggaggaagtc 360
 gttgatgtcc gtcaagaagt tcttgcatte gacctagatc aggagtgaaa acacttatca 420
 tagaatct 428

<210> 55822
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-A7

<400> 55822

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 tcttgagcat ggcattgcac ctccaatttc cccaagcca gaatggcgtg ctccgatgga 120
 tgaaatggct gttgtagcaa cttaaagaata tcgatcaatt gtctttcaag agccacgctt 180
 cgttgaatac ttcagatcgg ctacgcctga gactgagtat ggcaggatga atattggcag 240
 ccgtccatca aagaggaagc ctagtggggg aatagaatcg ctccgcgcaa tcccatggat 300
 ctttgcttgg acac 314

<210> 55823
 <211> 357
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-A8

<400> 55823

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 taaaaaaciaa cttgaggaag aggagctaga gtccagtctc acttcgaagc aagcatcatt 120
 accaccggaa ccgtctccag acgcagaagg tgctgtgaca gttgtagtcc gaatgcctga 180
 tggtagtcga caggggagcc gctttctcaa aactgataaa cttcagttcc tatttgattt 240
 cttagacatt gggaggactt gcaagccagg gacctacaga ttggtgagga cataccaag 300
 gcgcacgttt accaacagcg agggtgacgt atcattcagt gatcttggcc taacaag 357

<210> 55824
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-A9

 <400> 55824

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 tgagcttgcc aagaaggcaa tgataaaaga tgagaaaaat tccagtgagt caacacgaga 120
 gatcttgcca agaaagcagt gatcaaccat gcaacttttt tattttattt ttgggtccat 180
 gttgcagaga agcaacagaa catctgcctt tttttgatat tgggaattac attcccgtag 240
 ggccttgaga tggctgtata gtatacatta catgagaaa 279

<210> 55825
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-B10

 <400> 55825

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 ggagaatatg tcggggcgcg gcaagggcgg caagggctctg ggcaagggcg gcgccaagcg 120
 ccaccgcaag gtcttgcgcg acaatatcca gggcatcacc aagccggcga tccggatgct 180
 ggctaggagg ggcgggcgta agcgcattct cgggctcatc tacgatgaga cccgcggtgt 240
 gctcaagatc tttctggaga acgtcattcg tgacgccgct acctacaccg agcacgcccg 300
 gcgcaagacc gtcaccgcca tggatgtcgt ctacgcgctc aagcgacagg gccgcacct 360
 tta 363

<210> 55826
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-B2

 <400> 55826

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attctggatc agattgtctt cgagcgcacg ccgcaatggt caactgcgca gcgctggctt 120
 ggctgtcaga gcgaaacagc ggtaacagag caagacacga ggggtctgca ctctgcagtt 180
 gtgcaggagg aggaacagac acaaggggag gacggcgcgc ggccggacat ggctggaac 240
 agagatcgtc gtcaccgccg gcgggggtgt ggtcgacgac gcgacatgcg aaacactacg 300
 tgctagctag cataggaaaa aacaacatga aatcgtaaa ccaaccaatc cctcgactg 360
 ttttaagtgt tagctgtagg cgaaactggt catccaattg atcaaatgaa acttattt 418

<210> 55827
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B3

<400> 55827

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 cagctagcgc ctgctccctt gcgccgttga tcatgtcttg cagcagcggc aagtgcgact 120
 gcgggtccag ctgctcctgc ggcagctcat gcaactgcat gtcccctaac gtggagaccg 180
 ccgccgccag cagcatcaag accatgggtcc tcgctgcgcc gaccaccaag gccagcgccg 240
 gcgggttcga ggcggccacc gagggcggcg gctgcgactg caacacctgc aagtgcggca 300
 ccagctgcgg ctgctcctgc tgcagctgca actgagcgcc ggccggcccc gcgatggcgc 360
 gcacgagtcg acggaaggac gacgacgagt cgtataaata taatagcggc gtctatataa 420
 gatcctgtca act 433

<210> 55828
 <211> 333
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-008-Q1-K1-H5

<400> 55828

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 tccacacctt gcgtgataac tctgcgagtt acacatatat aatgcatacg gtcaatacaa 120

actgtctacg accccttcat cgacgccgac agcctgttcc gcagctctgg caccaccagc 180
caccagcaga ctgcgatgtc ggagctagtc ggcttattct gccagacttc ccacgaaacc 240
accggtggat cggcgactgc tccggatgga ccgntgcct gaggatactg ccgagtgaag 300
gaacagcaac ggacgggtccc aacgtactat gga 333

<210> 55829
<211> 268
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-G1
<400> 55829

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gcaaatgcc a tcgtttgaga gcttggttga atgtgttttag acttgagtat gatcatctca 120
attgtgtgtt gcaggtgttg taaggggtgct attggacttg atggctcctt ttatgttttg 180
tcaactcaatt ctgtagtgaa cagaaatttc tggttgcctc aagtttgctg tctgagatgc 240
ttatattatt tattttgttc tatgggtgg 268

<210> 55830
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-G10
<400> 55830

gtcaagtgtg ccttgcttga tgcaagttgt gttttcgtat cattattatt atgcacggcc 60
gtcgtacgtg tatggcttgt atgggttatt gccaaacttaa taaaagcaca ctctgtttgc 120
ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaagg ggggccgttt aaaaggacca aagtttactt cccctgcatt 300
ccaacctaaa agttttttta taggggtccc aaaattaaat taaggggccg cgtttttaaaa 360
acgtataaat tggaaaaccc ttggcttacc caaattaaat ccctttgaaa aaaatcccct 420
tt 422

<210> 55831
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-G11

 <400> 55831

 aatatttcat aggagttaaa gtgcacatac ctaatcaagt ctgtgggtct ccaattctga 60
 ggtagaaaga taatttatgt tctcatcttt ctgaaatgaa caagatgact ggcttatggg 120
 ttaaggtttt tttatagagc accatgactt atcagttttg tgaacaacc taacttatgt 180
 ggtcctggca ccacaaaacc ttgtcctgat gctcctccct tttctccacc tctccatac 240
 aaccctacaa ccccgatgca atcaccagga agtagctctt ccactactgg agcaattggt 300
 ggtggagtgg ctgctggcgc agccttgcta tttgctgac ctgctatcag ttttgcctat 360
 tggcggcaca ggaaaccaca tgagcaagca tttttttcaa tgtatctggc ttcaaagtta 420
 gtctttgatt attatc 436

<210> 55832
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-G2

 <400> 55832

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 cctgacgcaa aggatgctaa ggtcaatttg gatccagatg gtgtcttcac attctctggc 120
 agtgctggta caaacttgta tgaattgaaa ctagatctga atgacaaagt aaacgttgag 180
 gctagcaaaa taagtgtggg ggtcaggtcc atattctgta tcgtagaaaa agctgaagcc 240
 aaatggtgga agaaactcgt tcgagatgat caaagggcac ctactttgt gaaagttgat 300
 tgggacaaat gggttgatga agatgatgat ggtgctgata tcaacatgga tgggatggac 360
 ttctcgaatt tcggtggcat ggggtggtatg ggcggcatgg gtggcatggg tgatatggct 420
 ggtatgggtg gtcttggt 438

<210> 55833

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-G3

 <400> 55833

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 tgctcagtgt gcactcacca aagcaccatc agctgtagaa ccacagcaac tgaaggatct 120
 cgccttcccc aaacctactt cgtgagacgc tgttcaagtg ttcattgaaa aaactccgtg 180
 ctctcaagga cagctatagt ttgcttctag ttttcgagtg tattggccta ttctattttt 240
 gcatagtata gaatgcgcag tttttggacc gtaataaatt tatagaagat gcataacacg 300
 ccaaagttct ggaagagcat tgttttaatt ttgccgtaat gaaaatcatt agtgttcag 359

<210> 55834
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-G4

 <400> 55834

 aacttgatat tgagctgagt ggaagttacc atacttaatt gctttgaatt gattttttgtg 60
 gagatatgac ttgactaaac atctaaagca gctccagtgt agaaccctga tttttgtcag 120
 tgagaattct cagttaaact cccaagaccg ttcattggac atcaaagctc gacatgagat 180
 attgtgctct agttgagggt tgtgcgtcaa taatactttt ttatcaaagt tcaactcgagg 240
 aatgcaagaa ttaggatagg ccaattagat cttttttatt ggtgtatact gagtttcttc 300
 tgataaggac cctgtgtcac cacctgggtc aattttacta aacatttttg ccactagcct 360
 taaatacata ctacaaagtc tgattttacgc t 391

<210> 55835
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-008-Q1-K1-G5

 <400> 55835

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caagcaggcc ctccgtgaga aactccggcg ctcctacggc gccggagctg cctccgtcac 180
accggaggcc aggccggccg gcgaaccaag ccgtggcgct gagtgccggc gctcggcggc 240
cgaagacccc ataaggagag tcatgttctt ggctccctgg ggtcacacat aagaacacaa 300
acccgccgga cgagatctgg gcatgcaagc ttgcatggcc atgtnctggt cagtcagatc 360
t 361

<210> 55836
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-G8

<400> 55836

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tggttgaata tattcgatcat cagcattttt gtgcaaact ggagcaccgg tggcgcttga 120
cactcttaag gactgtctg gtgcaagtgc aacagctatt ccgtaggaag ttaagagctt 180
ggtcagcggg aacggcaact ccctaggccg catatttttg gatgacgcaa ggaagtagct 240
tgattgtttc gcaccgtgtt ttccctagcg acttgatga cacaagggat gatgcttcca 300
ttatacagta gagtagtggt ggtgacatgt acgca 335

<210> 55837
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-G9

<400> 55837

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agagcgcagc agcagcagtc aggcggccat ggacgccagc gcagcaggag ccggcgggaa 120
ggcgaagaag ggcgcggccg ggcgcaaggc cggcggggccg aggaagaagt cggtgacgag 180
gtccggcaag gccgggctgc agttccccgt cggccgcatac gggcggtatc tgaagaaggg 240

ccggtacgcg cagcgcgtcg gcacggggcg ccccgctctac ctggccgccc tctctgagta 300
cctggccgac gaggtgctgg agctggccgg caacgctgcc aaggacaaca agaagacccg 360
catcatcccg cgccacgtgc tcttggccat ccgcaacgac gaggagctcg gcaagctgct 420
gtccggcgctc accatc 436

<210> 55838
<211> 437
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-H11
<400> 55838

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tgcaacaatc tatgctttgc ttggaattcc tctgtcatat tcgatatggg acaggccact 180
ctaccgtgca atgaggacta acagtgcctt cagtttttga tggtttttcc tgtgttacct 240
gatccacatt ggtttttgca taattgctgc cattgctcca ccaattgtat ttcattggga 300
atcattaact ggtattctgg ctgcgattga cactttctct gaacatgtga taattgggat 360
cttttacttt gtgggggttt cactgttttg tctggagaca ctgctgagca ttgggggttct 420
tcagaaagtg tacatgt 437

<210> 55839
<211> 393
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-008-Q1-K1-H12
<400> 55839

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gtcactgcgg gcctgacata tctagctgcg tcagtcagct ctactccagt gtatgtacac 120
tgaggcatct gtaatgttca tgtgtatagc ctgcagcgtg atgaaccact tactgggatc 180
tgtacagggc taggtcgact agctctgaat tcatgtggat agagcggaac cggatggacc 240
tgaatcacat tcatgtcaaa ctacttggtta acattgctca atcccactca atccatgtga 300

aatgagaata accgaccaag ccctgagagg gcacgttact tcattcacga aggattgggc 360
acttgaagtt aaaagaatca tacacatctt gtt 393

<210> 55840
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-H3

<400> 55840

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tactaacaat ttaagtccaa gaaaaatcaa cagtgaagtt caactcacga gattaaatct 120
tcaaagtgcc gtttttaact gggagttgag ctc 153

<210> 55841
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-008-Q1-K1-H4

<400> 55841

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tcgtatagtg gcctatattgc tgtttcatag acattgctcc caggttgcag cagcaacaaa 180
agaagaaatc atatcctcaa ccccttgac actagaacct gagctgaagg taccattggg 240
aactactatg gtactatcag aagatcaact gctttcagag gatcaacgag atgagcaaaa 300
aaatgcgttg cagccgtcac aataagatgc tgattgatca actgttcaga atcaatatga 360
tagcaaacc cgtgatgatg acagtctgct gatcacctgt ggctccggag atcccttggtg 420
taatatgtaa ccatntcaac attgtagcat tctttttttt tt 462

<210> 55842
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F9

<400> 55842

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 ctggaagctg aagaagaagt gcctcgatca ttacactttg gttgactact ataggacatg 120
 cagccttgag gagctatagc agtctagata ctataggggc tctagatatg aaactatagg 180
 attattgcta ataattgtcaa atgcttaata attgaacttg aaaccataag aatggctaag 240
 agtctgatgc ataaggattt gagatatatg gattggagat atatgaatat tcgacgggtg 300
 gaattcagga gaagaaaagg aacttgtttt caagaatgca ctgcgttgct cggacgagag 360
 acgggacgga ataaaatgcy tgtgggtctgt aaaggccca agcttacg 408

<210> 55843

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E12

<400> 55843

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 gtagtggcag agggacatat gcacaatgct cggtcatttt tccatacatt tcgggaagct 120
 cataaggatga tgcattcaag ggatcttcag aagctggaag gcatcctctc tccttcacac 180
 ttggagggtta tttagctctg cactacattg tgccattatg ttgtgaatgg acccatgtat 240
 tggaatgtga attgtgaacc cataacccta aacaggggtg ggtgtggtat taatagactt 300
 gagtaattgg gtctggccca ttacaacgag ggtgagacgg taattacatg gggaaggccc 360
 caaaccttag acgggtagtc taccctctcg cagtcacaac tctatcctgt ac 412

<210> 55844

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-E5

<400> 55844

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 cctcttctac caggacgcgt cggatctccg ggacaagtgc gaggccaacc gacacgtgga 180
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<223> unsure at all n locations
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 aaaccttgct gtccactgat aagaaaattt ttaggtctga agaggaaaaa gaaagagctc 180
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 ggcttttgct tgtttgcaca ttcatggaa gatgtgcctt catgatagtg tacttttaaag 360
 atactggagt tttatagtgc atttaaccga tatgctntgt gtcgtgcatt ttgaacgtca 420
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<210> 55846
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E9

<400> 55846

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gaggaggaag gatgcccgct cagtgaagat caagaggagc aaggatgttg tcaagttcaa 180
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acgtcgggtt gaactaccaa agcttcttta tcagtagcag agtatgctac tctatgtact 360
tttggaaact aagctattag acctgtcagt gttggatgtg tggatcttgc atttttggag 420
aaataccaat ttacctc 437

<210> 55847
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F1

<400> 55847

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ggcgactacg atgcatgagc ttgacctatg cgatgaaact gttacctaca atcgtaatgt 180
aatgagctga cattctcgaa tgccatagcc catagtcagc catggcttgt aataacgtga 240
tggctgaccg atatgccagt aggcacctta tctagtactt acagaactac aaaacgttcg 300
tactatacat atatgggcaa ccttataagt ggctatttga gtacctatcc taacgcttat 360

<210> 55848
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F10

<400> 55848

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agtttagctt tcaactttga gactatctcg ctgaacaaaa tatgtatacc agctggagag 180
ttgagccaga ggacacgtgc tagttagctg ttcttctcgt gtctgtattt ctcagtctgc 240

tctcaaagta tatttaatgt atgacgattc aggttagctt aaaaagttgt gttatctgag 300
aactcaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaataaaa aaaataa 357

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<212> DNA
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<223> Clone ID: LIB3088-008-Q1-K1-F11

<400> 55849

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cggcgacaag aaggacgagc cgtggtggcc cgtgctggac acccgcgaca gcctggtgga 180
gacgctgacc accatcatgt ggggtcacctc cggccaccac tcggccgtca acttcgggca 240
gtaccacttc gccggctact tccccaaaccg gccgaccacc atccggaaga acatgccggt 300
ggaggagggc gggccgggcg aggagatgga gaagtctctc aagcagccgg agacgacgct 360
gctggacatg ctgcccacgc agatgcaggc catcaaggtc atgacgacgc tggacatcct 420
ctcgtcgcac 430

<210> 55850
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F2

<400> 55850

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tccttgcttg ttacatacaa ttgctaacgt tcttgctgca tctaattctc tatgattgta 120
atccgaacaa tgtgcattta actaaaatgt cgcttttacc tgaaaaaaaa taccattgta 180
atgacatatt 190

<210> 55851
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F3

<400> 55851

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aagtttttgg tagaccaccc aggaggtgat gatgttctgt tgtcctcaac tggcaaggat 180
gcgactgatg atttcgagga tgcgggtcac agcaacactg cccgcgcaat gatggatgag 240
tacttggtgg gtgaaatcga cgcgtcgacg atcccttcca ggacgaagta tgtccccccg 300
aaacaacctc actacaacca ggacaagact cccgagtttg tcatcaagat cctccagttt 360
ttggttcccc tggcaatcct gggcttggtt gttgccgtta ggatgtacac 410

<210> 55852

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F4

<400> 55852

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ttaaggtttt tttatagagc accatgactt atcagttttg tgaacaacc taacttatgt 180
ggtcctggca ccacaaaacc ttgtcctgat gtcctccct tttctccacc ttctccatac 240
aaccctacaa ccccgatgca atcaccagga agtagctctt ccactactgg agcaattggt 300
ggtggagtgg ctgctggcgc atccttgcta tttgctgttc ctgctatcag ttttgcttat 360
tggcggcaca ggaaaccaca agagcaagca tttttttcaa tgtatctggc ttcaaagtta 420
gtctttgatt attatctttc tcgcaa 446

<210> 55853

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F5

<400> 55853

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ggaggcgctt gtccacccat tctttgacga gcttcgagat cctaatactc gtcttccaaa 180
tgcccgctta ctgccacccc ttttcaactt caagcctgac gaattgaacg gagtcccagc 240
agacattggt gcgaaattgg ttccagaaca tgcaagaag caatgctctt atgttggatc 300
gtgagatgac cgtgccttgg gactggaac 329

<210> 55854

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F6

<400> 55854

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ccaacctgtg cgccatccat gctaagcgtg tgaccatcat gccaaaggac attcagctgg 180
caaggaggat ccgcggcgag agggcctaata cgccacctca aacatcgtga caaaaacatg 240
aagtctctggg gttattgtta atctggtgcc attgtaagga catatgagta gggtttgttt 300
tgtggatcgc aagtttctct tctgctactg ttgctgctac ctttgcctgt gttatggcta 360
gggtcgaata cttaagttaa ctatgcgctg acagtctgga ctagcagtgt tatgtgcgct 420
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<210> 55855

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F8

<400> 55855

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caaggatcaa ctggctatgc aatcctgtgc acaagcaccg ggagctccgt ggtctcacct 120
ccgcaggcaa gaagttccgt ggctgcgtg gcaagggccca cactcaccac aagaataggc 180

cgtcgaggag ggccacctgg aagcgcaacc agaccctttc cctccgccgc taccgttgag 240
cacatacaat ttgatgttct gctactgtgg aacctacctc atgcatgctc tgatagtatt 300
tggtattttt gttgcatcgt taaattttgc taccatgtt acaagctcct tgaactctgt 360
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<210> 55856
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-008-Q1-K1-E11

<400> 55856

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gtgatggcgg atgcggctac agcgggtggcc gcggctactg tggttgctgc ggcggtctacg 180
gtggtggtgg cggcggatac gtgcatggta accgtggcgg atgctacggc aactccgacg 240
gtaactggat gaactgagca gtggtgcccg cgcggccaag ttatcctgtt cgctaccgtg 300
ttgtttacce tagtaciaaag tgtttatctt agttcgactc gtgtttgatg ntacccatct 360
gtgttactga ttgaagggtca ctctgagtca gttgatagtg ctatgttcaa tat 413

<210> 55857
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C3

<400> 55857

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cagcatggcg ccgctactac aagaggaaga tggcggagca gcggcgcaaa gaagaagagg 180
cggcaagccg gccaaagtagt agccacccta gccttggggc gactatctat gcatctcgtt 240
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<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-D10
 <400> 55860
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 ttattgctga ggagatcaat gcagaattca aggagtctat tcttgatgctg gttggattga 180
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 tctcatttcg tcttgagggc acatcaggaa tgaagagggc tgcattgcag agtaatgtct 300
 tgagtaacct acagaatgga ctgttccatg tcaggaccgt gtcgaaagaa gaacccattc 360
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 tgaagcgtca tagtgga 438

<210> 55861
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-D11
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 aaggaactgt gtaccgaggt cctggaatct gacaacacaa acgtgaaggc cttgtacaga 240
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 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D12

<400> 55862

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atatggcaca gagtctcatg cgttccgatg atattgatat gtcccaggcc catatcaaga 300
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agaaggtcta 370

<210> 55863

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D2

<400> 55863

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cgctggctac gcaactgcat gccgtggagg gagcaaacat ctcaggtact gttgacacgc 180
attgaaatgt gcatcttact aacacaactc acgattgacc gccggtatgt atcccacgat 240
tatgaacaac acctggcgac cgctgtcatg caactactac acatttcaag ccacaag 297

<210> 55864

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D6

<400> 55864

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cggtgaggagg agcaaagatc tcaggtactc tgcatacggg gtgaaatctc tgtcggacga 180

gcacagcacg ctcttgctcg gcggcacatgga tccgtcgatg atggacaact cgtggcgcct 240
gctgccatcc caaaccaaca cattccaagc cacaagctac cctgtgttcg gcacgctgag 300
tggtgtagac gagagcacca tcgctgctgct gccgaagacc cagagggagc ccctctcttt 360
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cgacgag 427

<210> 55865
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<223> Clone ID: LIB3088-008-Q1-K1-D9

<400> 55865

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ttttagtaga gaacgggggtg aaccttgaca tgtttaagct gggctctcagt aactttgcaa 180
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<211> 443
<212> DNA
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<223> Clone ID: LIB3088-008-Q1-K1-E10

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<210> 55867
<211> 379
<212> DNA
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<223> Clone ID: LIB3088-008-Q1-K1-A5

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<210> 55868
<211> 161
<212> DNA
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<223> Clone ID: LIB3088-008-Q1-K1-A9

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<210> 55869
<211> 95
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B10

<400> 55869

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gtggcggagg gcacgtctgc ctgggcagtc acgcc 95

<210> 55870
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 <212> DNA
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 <223> Clone ID: LIB3088-008-Q1-K1-B11

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aataaaaaaa aaaaaaaaaa aaaaaaaaga acgaaaaaaa aaaaaaaaca aaaataaggt 240
 acgctttttt aaaaatccaa taattattca atagggtaac caaaattaaa tttattgaac 300
 ggggatttaa aacttaataa ctgggaaaac ttttaaaaaa acccaactta gggaaaaacc 360
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<210> 55871
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-B12

 <400> 55871

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 aaaaaataaa aaaaaagaaa aaaataataa aataaaaaaa tgaaaaaaa aaaaaaaaat 180
 aaatatataa ataaaaataa aaaaaaaaag agacatcaat at 222

<210> 55872
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-B4

 <400> 55872

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 <212> DNA
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 <223> Clone ID: LIB3088-008-Q1-K1-B5
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 <211> 409
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 <213> Zea mays
 <223> unsure at all n locations
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 ggcgaaaccg cgagatagat agattcagtg ttggaccgag aaccatggat ggatggatgg 240


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aacatgcatg cccagtgatt gtttgcgccg gtgaaagttc aatttgtcg gatttatttt 300
ctctgaaata gtatatgttn ttttttctcc atcggtgagc cggatgatctt gtcaatttgt 360
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<400>	55875
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<400> 55876

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gtgttgcttt tt 432

<210> 55877
<211> 465
<212> DNA
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<223> Clone ID: LIB3088-008-Q1-K1-C1

<400> 55877

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ccaccgcaag gggaaatcaa cgaagagggt gtctatggtc aggggcctga tcagagaggt 180
tgctggggtt gtccttatg agaagcgat cactgagctt ctgaagggtg gcaaggacaa 240
gctgcccctg aagcttgcta agagaaagct tggaactcac aagagggcaa agaagaagag 300
agaggagatg gcgggcgtcc tcaggaagat gaggtcggct ggtacgcaca ctgacaagaa 360
gaaatagaga gcatttcaag ttcattggag ctgccagaga ttatgttcca gtgtctgatt 420
ttccatacat gtagaaccta atagacatgt caaagtatta tgtat 465

<210> 55878
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A4

<400> 55878

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gaagtactgg atccccacc cgaagaccgg cgtgttcggc ccggcggctg tggaccccaa 120
gctggcagct ggtggcgcgc ctgacgccgg ctccgatgct gcaagaggca cggctgctga 180
cctgaagggtg tggtccgcc cgttcgagga cgtctagaag ccgccctccg ccgagtgagc 240
cgcgcggtgc tgcatagccc agcccacact ggttctcgct cacaaaaagg gcagcggtag 300
agcctggcat gcaactctgt cgagctcagc tgggctggac tgattgctta tatcactact 360
attctatact actag 375

<210> 55879
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-C10

 <400> 55879

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 gttgtttggcg catatccttt tgaagatcca gaagagccta agaacttccg caagacaatt 120
 cagcgtatct tgaatgttca gtacgcaatt ccagacaacg tgaacatata tccagagtgc 180
 atgcatctaa tttcgaggat ttttgttggc gatcctgcta cgcgaataac aatccctgaa 240
 atccggaatc atagttgggt cctgaagaac ctctctgctg atctgatgga tgatgatagc 300
 atgagcaacc aatatgagga gcctgaccag ccaatgcaga ccatggatca gatcatgcag 360
 attttaacag aggccaccat accacctgcc tgttctcgca gtataaatgt cctagctgat 420
 ggactggaca tggac 435

<210> 55880
 <211> 119
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-C11

 <400> 55880

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaaa aaaaaaaaaa aaaaggaaaa 60
 aggatataaa aaaaaaaaaa attaaaaaaaaa aataaataaa aaaaaaaaaa atataatat 119

<210> 55881
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-C12

 <400> 55881

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 gatggtacta gtttcgttgt tcgcaagcag aggaagaacc ttctgtagat tcgggtttgt 120

tgtccatgtg ctcagatggg aacttgagat tgtatgaatt tgagatatgg tgatatgagc 180
 tgatgatttt tattatgctt attgttgctc ctctgagctg tcttttttga acgctatcca 240
 aataaatttg aaaccagatt gctgatgcgt 270

<210> 55882
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G9

<400> 55882

cccacacttc ccaaaaaaaaa acaaatactt taaaacacat acaaaacact aaatgggtaa 60
 cgtaaaaaag aaaaataaaa ctaaaaaag gtcaaccatt tctaagccc cattcttaca 120
 atacatctac ttgcaacgtc tccacttcta gtatagcttc tccttatttc aatcaattgc 180
 ctgtcctttt acaacactg 199

<210> 55883
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H10

<400> 55883

gacactcgtc acggagaagg tgagagagaa tggccatcat catatcacct gaaagtgagc 60
 ttgatttttc agcagacgga ctggatactt ctaggatctc atattatgaa ctcatcttga 120
 catgactgca aggggtgcata ctctcactgg ttgtaacaac tgatactata gctatcgaat 180
 tacacaatgt gcaggaatag atctcagtct gatgaagcca tactagacta aaacattcgt 240
 cctaactaac cagactcatg caaatgtcct gggtcatgcc aaaatccatg tcatacacct 300
 gcagtgggga caagacctta ccgacagata ccctggcatc tcatgtaatc aggggtgttc 360
 agaatactgt ctaaattgaa agcacattcc atagaagatt acatt 405

<210> 55884
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H11

<400> 55884

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caaaaaacat gcttcctatg tgggatgatg gttatcttta tatttgtatg ttaattagtc 120
tctttgctgt taaaaaaaaa aaacaaaaaa gaaaaaaca ataaaaaaag caatagaatt 180
acacaatgaa caaaaaattg atcgtaatta gatgaaaaaa taccatgaat 230

<210> 55885

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H2

<400> 55885

gttcgacttc ttcagtcaag cagcaatcat gcaacatgcc ttactgtagt tttttatcac 60
tgcacatggt gctggataaa tttatagact ggaggattat agaggactaa caagtgtac 120
tgggagattc tcgagcacca ttgaactaag agattccaaa tagttctttg gagtctattg 180
ttgatgttgg cggggataat ctagcagaga tttgtcagat tttttgtgca acacggaggc 240
tacatgaggc agcaacgatc ccattcttct cgcatgccac tttacacaag ctaaggatag 300
cttctggtct cactcatggt tgtggcaggg aaagccgagt cagtaggggt tgtcatgtag 360
ctggagttat ctgagaccgc atattagatg cagtgatgat gtttacattt accgtgcaag 420
caagatgact tatattatg 439

<210> 55886

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-H3

<400> 55886

cccacgcgtc cggtgcaaaa catcgagaca ggcaaggttc attctgtact ccatatagaa 60
gatcctgatt ggcccagacca tggagtggca actaatacag atgctgtacg ggaaatctgg 120
aaacgactgc atcacattcc aacggaacat cctatagtta tccattgcag tgcacgaatc 180

ggaaggactg gtacttacat cacaatccat actacaattg agcgaattct tcttggagat 240
 aaaagctctt acgatcttgc caaaactgta aagaatttta gatcccaacg acctgngatg 300
 gtccaaacag aggaacaata caagttctgc tacagggcaa ttgctgacga gctgaaagac 360
 ctgctaaatt cagatcattg aggtgggtca catgagacgg acagcaacgc tgntagcatt 420
 tattacgttt ttttagacat ttctatgt 448

<210> 55887
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H4

<400> 55887
 cccacgcgtc cggcgacgcg tacgtctctt ggccaggttc gatatgaccg gaatgtagag 60
 gattctgggt gtcataca tgctaacagg acttatacag aacagctcg ggcattgtag 120
 ct 122

<210> 55888
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H6

<400> 55888
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 gatttgatcg cgcttttctg gtgtcagttc aacactgaca cttacatata atctccatat 120
 aatccctcgc catactaact gcatgagttc taataatttt tcaagcatca ctactgttt 180
 atatactacg ctataactta gcagagatgc aagatgttac gtacatcata tactcgatgt 240
 ctgtacgctg tgctgagtta gtgtacgagc tgaatcgaat gcatgactgt gtatatgtat 300
 atagatgaaa acatccacat ggaatgtaat acggaaaact aaatctccaa ctgatcggtt 360
 taaacgtcta gaatatgcaa tattaacac tcgtgcatta gagctcgtag gtatcttata 420

<210> 55889
 <211> 432

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-H7
 <400> 55889

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 tgagcagcaa caactgcgcc aacgtgtgcc agaccgagaa cttccccggc ggcgagtgt 120
 aggcggaggg cgccacgcgc aagtgtttct gcaagaagat atgctagtag tagcctcggc 180
 tttgctggca caagcaggtc gtcggcacgc aacgcaattc aagcatcata tcggtcctcc 240
 tccccggttg ctgtctactc gacccccgtt tctctttcga tcgatttcgt tggttcctgt 300
 tgctctcttc ttttccccgc aataatatgc tccatgggat ctactgttg tactttctgc 360
 atccgttggg agtcaggacg atccttcttc ccgctgtcac gtgtgattca aaatggatgt 420
 actaatgcaa ct 432

<210> 55890
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-H8
 <400> 55890

cccacgcgtc cgaaaaaaaa aactaacttt aaaaaaaacc aacaaatcaa gggcctatgc 60
 gtgaacaatc aacaactgca ccaacatatg caaaaaacga gaacttacc agcagcgagt 120
 gtaaagccga aggcgccacg cgcaagtgtc tctgcaagaa gatatgctag taataacctt 180
 ggctttgctg gcacaagcag gtccgttgca cacaacgcaa ttcacgcac atatctgaac 240
 tcttacgcg ttgtgtgcta ctgacccccg ttttctcttt cgatcgattt cgtagcttcc 300
 tgctgtcttc ttcttttccc gcgaataata tgctacatgg gatctcactt gtgtactttc 360
 tgcacccgtt ggtagtcaag accaaccttc ttcccgtgt cacgtttgat tcaaaatgga 420
 tgtactaatg caactgttcg ttc 443

<210> 55891
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H9

<400> 55891

attattatga tacgcgtcat tgtaggtttag ctagctgttc cttgtaccat taatcagaag 60
ttcattcatg catgaattga caacctgtca ttgctttcgt ttctgggggt caagtaaaat 120
cgtttgactg cttgacgagt tcagtgtcgg tggtgccatg taaagtcgtt cttgtaatat 180
tgaatgaata gttcccgggt ggaactagtg gttttttaca ctgctgaaag ccatcgtggt 240
tggcaataat gtctcatggt caatgaaacg tgaaataatt ctgcctgtaa aaaaaaacg 300
tggttaacaaa tctcaacaag ctggtggagc taccaaatg atccatctga agttactcag 360
aacaagatgc aatcacagat tgattatctt tcgctgaaat aaaaaagggg cttccgttt 419

<210> 55892

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A1

<400> 55892

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cacggagctg gacggccgca gcatcacctg caacgaggcc cagtcccgcg gcggacgtgg 120
aggcggcggc ggcggcgggt acggtggtgg ccgtggaggc ggcgggtacg gcggaggcgg 180
gcgccgtgat ggcggcggcg gctacggcgg tggcggcggc tacggtggtg gcggaggcgg 240
ctacggtggt ggtggcggag gctacggcgg tggcaaccga ggcggcggct acggaaactc 300
cgacgggaac tggaggaact g 321

<210> 55893

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A10

<400> 55893

cacaggctga cccaccaaac agcaagcgaa aatctcccga tcccctctag tctccgcggc 60
gaagatgtcg ggcgcgggca agggcgggaa ggcctgggc aagggcggag cgaagcgcca 120

ccggaagggtg ctccgcgaca acatccaggg gatcacgaag ccggcgatcc ggcggtctggc 180
 gcgcagggggc ggcgtgaagc gcatctccgg gctcatctac gaggagaccg gcggcgctcct 240
 caagatcttc ctggagaacg tgatccgcga cgccgtcacc tacaccgagc acgcgcgccg 300
 caagaccgtc acagccatgg acgtcgtcta cgcactcaag cgccagggcc gcaccctcta 360
 cggcttcggc ggctaggcta ggccggtcgc gcctcgttgt cgtcgtgcg gttctattgt 420
 ttttgcaatt cgcaagttg 439

<210> 55894
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-A11
 <400> 55894

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 ccgcggttgc gcagagcgac tccgactcgt cgtctgtggt tgatcactcc ctttcgcctc 120
 ccgcggtgac ggcaaacaag gtgggcttcg aactggatct gaactggccc ccgccggcag 180
 agaactaggc aggccggagt ttttggctga cgacttagta gcttcctttt cccttttgcc 240
 ttcatcagga atgttacttg tggttgtttt ggtcctgtat ggctgtattc ttgttctgta 300
 gactaagaga tggggagtct tgtaaataatt tttttccgtc gagacggaaa tgaactgaga 360
 tctgttcgtc tgtctgatca agccggcggt gatatgggct taagctatgg agtattgatt 420
 agt 423

<210> 55895
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-008-Q1-K1-A12
 <400> 55895

aaaatgaaag agaataacaa aataccgaat gctaaaagac agatacacca aacgagactg 60
 agggcgcaga tgcacagagc gactgcgact cgacgtctgt ggatgatcac tccccctcgc 120
 ctaccgcggt gacggcaaac aagggtgggct tcgaactgga tctgaactgg cccccgacag 180

cagagaacta ggcaagccgg agtttttggc tgacgactta ctagcttcct tttcccttat 240
gccttcatca ggaatgttac ttgtggttgt taaggctctg tatggctgta ttcttgttct 300
gtagactaag agatggggag tcttgtaaatt attgttttcc gtcgagacgg aaatgaactg 360
agatctgttc gtctgtctga tcaagccggc gttgatatgg gcttaagcta tggagtattg 420
attagtaatt gcca 434

<210> 55896
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G8

<400> 55896

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acgatgccag cccatctcat gtacgacggc aaggacgaca acctgttcga gcacttcagc 120
gcgggtggcgc agaggctggg cgtctacacc gccaaagact acgccgacat cctcgagtcc 180
ctgggtccaga ggtggaaagt cgcggagctc acagggtctg ctggagaagg gagaagggcg 240
caggactttg tctgtacctt ggcgccgagg atcaggcggc tggatgatag agctcaagcg 300
agggcgaagc aagcacccgt tattcctttc agttgggttt atgaccgcaa ggtgcagctt 360
taatcaagaa cgctaggcaa tgtgggcatt tactacgtat atcattttca gtcttggggg 420
tctctataag aaacagtctc taggttatct agc 453

<210> 55897
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F2

<400> 55897

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tcaattggga ctggactgat ccacaccagg cacttgagta ggagtatgcg gcatttgaac 120
aggcaatcat gctagctaga cctgattaga tagacagcgt tcgcttccat gtcaaatcat 180
ggacacctac aaggctctatt gcacctgacg agtcgttcac cacctgcaac tgggaaacct 240

gtgtcgaacc aaacatcatt ggcaagtgtg agatccctga tgcgccatgt atcagcacct 300
gatgggaaac ctttgactaa tcacatagca caagctatat gcaagacca taatgaggca 360
gaaaacagct gagcggtgaa ggcctcagat gatccaatta cctgtagcag a 411

<210> 55898
<211> 460
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-007-Q1-K1-F4
<400> 55898

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agcaggtgaa gaagggcggc ggcggaggcg gagggcgagg cagtgttagc ggaagcggag 120
gcggaacact gaatccctgg gagtgctcgc ccaagtgcgg gtcgcgggtgc tccaagacgc 180
agtacaggaa ggcctgcctc accttatgta acaagtgctg cgccaagtgc ctctgcgtgc 240
caccgggggtt ctacggcaac aagggcgccct gccctgcta caacaactgg aaaaccaagg 300
aaggagggcc caagtgcctc tagaagatcc accgcagctc ccgtccgcca ttgtccctc 360
ttctccgaat ctggaacgtg ttgntcatct tggaccaccc cctaggcttg gcattntatt 420
actagtataa tgctagtgtc cgccatttgc ttaatctgga 460

<210> 55899
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-007-Q1-K1-F5
<400> 55899

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agattcacag ttttgttgac cgtagaaaac gtttattcat ttattagtta caagcgtcct 120
tcccccccc cccccctct ccttttgtaa aagtagtgca tatagcagga ttaagataaa 180
cacatgtaat ggagtatata ttgtgcaact gccatatatt atatgatata tagcggctca 240
tattagggtg ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg 300

acgatttttaa ggaaccaaa

319

<210> 55900

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F6

<400> 55900

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agacaagaag tattggagat gattgaatat gttaattgat ttgctagtta gcagaggtgc 120

aatcatccaa ttatgaatga tgttttgtaa tagcctagta tataggatga ttaagataaa 180

catatgttat gacacatagt atggatcgac tgccatatgt tatatgatat agagcggttc 240

atatta 246

<210> 55901

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F7

<400> 55901

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gctacctgga ggagcccggg agctgggtcc tgtaccatgc tggcgatttt gtggcctcaa 180

agcctgacca gctgatgaag ctgaagttct gcatggcaca gatcgactgc acgcacacaa 240

aatgcgggct gtgcatcgac tcggttctta tctatccaaa agggaagggg tttcaccagg 300

agaggtggt caggtctcag aaatgagggt tgtagatgtt gtggaggtat tcacattagg 360

atgttagagc aaatgcagct tgcagtctga tcttattttt actttgggct ctagttcgca 420

gcaaaagtga agtgtatgtg gttgta 446

<210> 55902

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F9

<400> 55902

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atgggctagg tgtgcacgca tcggcaaggg caacaagccg cgggtgagcc tgcccaaggg 120
caatggatc aagctcagca tcgataagga gcagatgagg cagactttg ctgcccacgc 180
tgctgacaaa gcataagtct tgtgaatgac gctgctagca gctatgtgct ataacatagt 240
atatgaggat ctgcacggat ataaaactac ctgctcaaga cggtttatca taatgttgaa 300
tgcgcttttg ataaaaatac caagacgtag gacatacgcc ccttcctttc ttctatgctg 360
aattatgggt gaa 373

<210> 55903

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G1

<400> 55903

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cacctgtagc catggacgcc agcggagccg gtagcaaggg gaagaagggt gcggccgggc 120
gcaaggcagg cggccccagg aagaagtcgg tgacgcggtc cgtcaaggcc gggctgcagt 180
tccccgtcgg ccggatcggg cgctacctga agaagggccg gtacgcgcag cgcgtgggca 240
ctggcgcccc cgtctacctc gccgccgtcc tggagtacct cgccgccgag gttctggagt 300
tggcagggaa cgcggcgaaa gacaacaaga agacgcgcac catcccgcgc cacgtgctcc 360
tggcgatccg caacgactag gagctcggga agctgctggc 400

<210> 55904

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G10

<400> 55904

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ggttctcgta gaacgaagaa ctgcgtgtgt ggatcacaaa actgcagggg attattttga 120
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 tatgaaacca aatttagtct ccggataata tgacagatga tgtcatttgc catgtgtact 240
 gtgaagacag taagttgtcg agcgagctgt agaatttctg ttgctctgca ctgcatgggtg 300
 gtcgctttcc caccatttcc tcggatgttt atgggggagg gcattgctgc attgcttccg 360
 ctaaacttgt ccaccaattg caccggcttt tgtagacttg ttatcagccc cgcttgcggtt 420
 ggacgcctgg t 431

<210> 55905
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G11

<400> 55905

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 gaggagtgc cgcccaagg acactcgtct tcagccccag tcaacagagc acaagcgacg 120
 gctggtctcc tctcatggaa caaggtcaaa ctcagataga agggaccatg ggcattctta 180
 tggggcatac tgacagggcc tcagttgact tccttgaggt tcattctact aggaagcgga 240
 tgcccgtttt ctcccgaagt tagtatgatg gtagacaaat cggtggtgat cgaaaacggt 300
 ccaggagta tgatgactcg tgaggagcac g 331

<210> 55906
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G12

<400> 55906

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 ggtcctcaag cgggccgtgc acgctcacgc cgagcctgac tgacggactc ccagcccagg 120
 cgccaggggg aagaaagccg acgccgccga ctccgacgcg ccgtacagtc ggcgatggct 180
 acatgtattc accgataaag gcacgctgct gccttattgc tgagaccatt gttaggtcag 240

tgctagccgt gactcgggtga gttgatattg tgacagcaca taaggaatgt ctatgcttgg 300
 gtacattctt ggacacattg cttagacgac tagtgtacat atagatgagt tggcagattg 360
 aactttgttt agcttttctaa agtgagcatt tcgcaagaaa 400

<210> 55907
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G2

<400> 55907

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 caagagtact cttggaggaa aggttatcat tcactctaac aaaccttacc aacttatgcc 180
 ttgtttgaat gcaattatgc atgttcttgt accctgctct tgcttggaca catgcttgac 240
 atggctaaaa aatatacctc gccgacgtcc tggagtacct cgccgcccag gttctggagt 300
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<210> 55908
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G3

<400> 55908

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 tgattactca atggaatata tcctaacca tctcaagaaa gagatgacat cgccacagaa 180
 ccgcaagcta gttcagcctc cggaaggac attctgctaa agatggcagc aactcatgtc 240
 catccatggt gactcggaaa cagctttcgc acctgggtcc tatattttat atatttatgt 300
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<210> 55909

<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-007-Q1-K1-G4

<400> 55909

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catcgaggac cgaatcggat gcgggcaagt cgaggagctc atcgaggagg ccgaggacga 180
gctcaagctc atcgccaaaa tgattgaatg ggatccgtgg ggtgtccctg atgactacga 240
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tgctcttctt gaggagttct tcaagacact agatgccgtc aaatcagatc ccgtccttca 360
aggcgatgct cctnctcatg tgaaagcgta aagatgagtc ttcccggtta tgtctaattg 420
catttcacac tt 432

<210> 55910
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G5

<400> 55910

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aatcgatgaa tttgtggact acttgaaaga gaacgggtctt gcctagcata gaaggtgtac 180
ggaattgggc tgtagggggg agaatttgtc acccacaagg ccaccatcat tgtataactt 240
aatggttgga tgcttgatt cattgcacta ccaatagcta atgcggctcg tgcgtctggg 300
gatggagttt atcctctata tagacaaaac ttgttgaatg atgtgggtgt aaaacgaagg 360
ctagaatgga agtcaagccc tggttatcgc cattttgaat tcctcatcac gtgcctcgcc 420
tacgtcattg tgactttgca aaaaaaaaaat aaaagggc 458

<210> 55911
<211> 419

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-G7

 <400> 55911

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 tatctcatgg aacacggcct tctgtacacg cagggtgcaac caggcctgct ccgcatcctg 120
 ctctagtaat ggaactggtc gtcctagctg ttgttcacaa ctggatcaga tgaaaaagaa 180
 gggaaaaaga aaagaaaaga aaagataagt tgacctgtac ttttgtatat ggcagagatt 240
 gctagcagga tagtagcggt aagaacttaa gatagctcat gtaacattca tgtcaggctt 300
 tttgtcagca aatgtatacg tcttaaaatt tgggagttag ggaatattct cgttgtctat 360
 ggtgccggtg gatgcacacg gcatagcgtc ttcacagaat cacaatcata ttctcgatc 419

<210> 55912
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-007-Q1-K1-F12

 <400> 55912

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 cgcgcttctt tcgacatgac cgtcggcggc gccccggcgg gccggatcgt gatggagctg 120
 tacgccaacg aggtgcccac gaccgaggag aacttccgcy cgctgtgcac gggcgagaag 180
 ggcggtggga agtccgggaa gccgctccac tacaagggtt ccaccttcca ccgcgatcgc 240
 cccgagttca tgtgccaggg cggcgacttc acccgcgga acggcaccgg cggcgagtcc 300
 atctacggcg agaagttccc cgacgagaag ttcgtgcyca agcacaccgn cctcgggtgtg 360
 ctctccatgg ccaacgccgg gcccaacacc aacgggtccc agttcttcat ctgcaccgtc 420
 gcgacccctt ggctc 435

<210> 55913
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D8

<400> 55913

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gacatgtgca acacgttgtg gatgaacggg ccaggatgct gcttaggtgt gatctatcct 120
atccatccat ggataataaa gaagtttgtg gattgctggt tt 162

<210> 55914

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D9

<400> 55914

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gacgcaggag caacagctca atgagctcgt ggacatccaa atcgaggaga ttgctggtgt 120
cgccaagaac gtcactttac gtcgcatgga taagatggca gagctggtgg ttcaatgaat 180
ctgggtgagg ttctacttc aaacgatgtt aaaatgctga cgaagcttat ctggtgaggt 240
ctctgttatg gttcggttc ttggtagaaa gggaaatgtt ggttatcgca ctgacatcgt 300
aatgttagaa ccaacacatg cataggcact gagtacattg tcacggcaga ttattatgta 360
ctgcaattct cgaatatattg atgtgaatgc tatgttagat tgctt 405

<210> 55915

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E12

<400> 55915

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tctcgggggc caccgacgtc gactactgca gtaagaagga ctaccgggtg aagggtgagcg 120
gggtgcagat cgtgcccgat ccggtcgaac ccggcaagcc cgccactttc aagatctccg 180
cttctactga taaaaccatc gagaagggga agctgggttat cgacgtcaag tatttcttct 240
tctacgtgca ctcgagagacc cgcgacatct gcggagagac tttcttgcca gcgaccggcg 300

acttcgtgct ggtccaccag cagacgtgag caggcttcaa tccggcgggc ttctacacga 360
tctacatgaa gattgtccgg gacgacaacc aggaactgaa ctgcatctcg ttcggggtt 418

<210> 55916
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E5

<400> 55916

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ccgccactgt tgaggagctc acatgcctc gacacaacac ggtctctggt ttcaacgtat 180
aataactggg ctgcgagcac tatatggatg atggcttcac gaggcaccag tgccgtgctt 240
tcaagggctg ctcgatgag gcaaaaactg cagtctgcct tggaggccag tgccttagat 300
attgaagacg tttcttacca acatgccggg catgcagccg tcaaggacaa tgccaacgag 360
acgcacttca acatcaaggt tgtttcacca aaaattgagg ggcagaacct ttgtgaagcg 420
tcacaggatg gtgtatgatc ttctgaggga tga 453

<210> 55917
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E6

<400> 55917

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actcgatact ggagaaggcc ctgcttggtg aacattccca aggacttttg aggaatctgt 120
ttgaactggt tgacattatt ttacagtttc gaagccatgc tgatcgatgg tttgaagga 180
tatatgagtt gcagctaagg ggaaagggtg aatcaaaatc aaaggatata ggttcatggt 240
ttgatggcgg cagaaaagct atgatccaac tagctggaga acttttctgg aaaatgggtg 300
aagacctgga tagcatcgca aaggattata cagcttctct tgatgctttt attacgcagc 360
tgcccatgca acagcacgtc gatttgaagt tccttctctt ccgccttgac ttcactgaat 420

attacagtcg tgtttccttc aacaaatgaa tgtgagc

457

<210> 55918
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E8

<400> 55918

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tcccctacga tatcttcaac gttacaagca gcatttaaca gccacagtc ggacagattg 120
aaacagtcac tggaaatggc acctcgcttt cttactttat attttgcaac agcattgcga 180
gacgttaatg actcactgct gtgtgctctt attccagtag ttatgtcaag atatgctgca 240
atgttcccag acaaagtttt ctctttcaag gtgagggaaa ggctttcaga cttcattttg 300
gctgcattcc agcgggtctcc caacatcatt gcagtactga agaaacctat tactgacaga 360
cttggtgagg ctcatgataa tcttgccaag acagagttag cattgcactt gtgctgggcc 420
attggtgagc atggagcttg aggggtgggt cac 453

<210> 55919
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-007-Q1-K1-E9

<400> 55919

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gtccggtgtg caccggactg tccggtgcgc cagatctgca acggtcggca acggtcggat 180
gcgctgttta aggaaacaaa tcaggcaccg gacagtgtcc ggtgtgcacc ggactgtccg 240
gtgcgccacg agacagaagg caaagatggc cttccagatt tgttcccaac ggctcctagc 300
tgccttgngg ctataaaagg gacccttagg cgcattggagg agcacaccaa gcattcctac 360
aactcttcta agcaccaaga catcaatctc acgcattcgt ttcattgtga tagcatatag 420
agctcttggt gagttg 436

<210> 55920
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F1

<400> 55920

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atccaatgga aggccctga tgaaccatct gccagtctat agaaatgaac ggccccaggt 120
gaaccaaaca ccataagtaa cccgagtga ccatcacccg gttgcaacca tggctaacca 180
tagaccagta gcccattgaa ggcacctggc gagccaaaca ccacctgctg atgggaacc 240
tgtgacgaac caaacatgag tagcatatgg aagatccctg atgagccaag taccagcatg 300
cttatgggaa acctctgacg aaccatatag cagtgccaaa gggaagacc atgatgaggc 360
ac 362

<210> 55921
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F10

<400> 55921

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ccacaaagag cggtctggtt ttgagggggc ctggactacg aaccctttgg tctttgacaa 120
ctcttacttc aaggaacttc tgagtggcga caaggagggc cttcttcagc tcccaagtga 180
caaagccctg ctgagcgacc ctgtcttccg ccctcttggt gagaaatatg ctgcagatga 240
gaaggcattc tttgatgact tacaagaagc ccaccttaag ctctccgaac tggggatgct 300
tgatgcttaa atgggtccata tcctggagcg ggacacaaac tgctggctgt atggactcgt 360
gcgattcaag gtgaaccatc agattgtcta gtgtcttctt tgtaataaat ttatctggctc 420
ttgtacttt gtcta 435

<210> 55922
<211> 402

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-C10

 <400> 55922

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 ttgttgaagg ccgttgcgtc gctagccgga tctaattgtca atggcacctt atgctttttca 120
 cacgaaggggt atagtgtctac caccgttact ggaagaatct tttgcctcaa gtgatgcttg 180
 catgggttcc atgtgcacgc gcttggcaac acctgcaacg gctgcatagc aactggggcca 240
 ctcttcaatc ctgctggcga tgatcattgt acactttaag atcttgaccg acatgccgga 300
 taccactgga actggacagc tttagaagaa acgcttgaat atgacgatat gactgtcaac 360
 ttgatctcac atgctagacc ctactagata attggccgag ct 402

<210> 55923
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-C11

 <400> 55923

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 ttaatacttg gtccctcatca tttgctattg ccaagtcatt caataaagca aaggattttg 120
 tgtggagaca tgatctcttt gaggatagca tggtagcagc tgggctttct gggatagaat 180
 ctggaacaaa gctttacatt tcaaatttgc actatggagt gacaagtga gatctacagg 240
 agcttttttc agaaatgggt catttgaagc actgtgctgt tcattatgac agttatagac 300
 acccaactgg ttcggctgag gtgatattca ccaggagaag tgaagctctc gcagcactga 360
 agcgatataa taatatgcgc cttgatggga 390

<210> 55924
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-007-Q1-K1-C12

 <400> 55924

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tgctgcatct gtttcgacca ggcgtagcag atggaggtgc atgactgctg gcaccagatg 180
tgcgcgccgt gcacgcttgc gctgagcttg cacagtaagc ccgaccgggt gactctagcg 240
gttcggttgt cagacttgcg cgattggcag ggcagcatct tgcagctggc cctgggtggc 300
cgggcaagca gctacgacgc ggacaccgtg aagtcggcag gtgcagcagc tgctgccttc 360
taccgcagc ttgttcggcg gc 382

<210> 55925
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-007-Q1-K1-C2

<400> 55925

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ggtgctcggc gggaattggc cgacggcgc cgagcctggc cctggcgccg ccgaaacaga 120
accacccttc ttcgccgtg acggcggaag aggctggtgg cctggcgccg gacctggagc 180
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gacatgaccg gcaaagacgg cggcggttag tagggaatat cctgctggta ggagaagagc 360
ttttgcccac ctgaagctgg agaagggttg ctcaaagat aggacggngt gggaaaactg 420
aaaagaggaa gctttggcag cgtgtgcntg cgtgtgtgtg 460

<210> 55926
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C3

<400> 55926

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aactaacaaa tagttgctcc cgagaatcca tgattttaac cattatgaac tccataagag 120
 atttaccaga cttggagtta gagaatataa ggagtcaact gctgcgtgat ttctcccctg 180
 atgacgtgtg cccaagtagc gctcactttc ttgaatcacc tggcaagatt gcaccgtcat 240
 gttctgatga tgacaccgac tacgactatc aagaggctga acttatcgat ctgagaaatg 300
 acaacaatac ttatttgga gctctgcaa ctacactggc ggctatagct attcctgtgc 360
 ccacaacaaa tcttctcagt atcgatgaac ttctagaaac agtcgtgaat gatgtgtcat 420
 c 421

<210> 55927
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C4

<400> 55927

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 ggcggtcgt actctccct gagcagttcc gcacccctcg cctcaagggc accgagttac 180
 ccgggacagg agagtacaac aaattctacg gcgacggggt ttataactgc gctggctgcg 240
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 tcacatgtgc agcctgcggt ggccatctgg gccatgtgtt caagggtgaa agcttcaaga 420
 cacctactga tgagcgccac tgcgtgaata gcg 453

<210> 55928
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C5

<400> 55928

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 gtaggtacca caatgagatt gtgatgctgc acatggcaca tcaagggtgca caagatatgt 120

accgtagaaa ttatcgtaaa gtgcacacag ctgtatgtat agatgttttag aagtggccga 180
 agttaggctt gctcaaccgg ggcaatgatt tacttagcct gctgaaatgt actataggta 240
 gcattcaagt ttgtgaccat catgcaagta catgtgggtt tgttgaaatt gagtggcat 300
 cggagatgta gcaaaatgtt ccctatcgag agctcgtgta ctatatttgt tttatgaact 360
 taatttttat tacaacaaat aaaaaattaa ttcaaaaaat aa 402

<210> 55929
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D10

<400> 55929

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 cgtttccagg tgaagttcaa gagaaggcgc gctggcaaga cagactacag ggccaggata 180
 aggctgatta accaagacaa aaacaagtac aatacaccca aatacagatt tgttgtgcca 240
 tttaccaaca aggacatcac agcacaaatc atctctgcta gtatagcaag tgatatgggt 300
 cttgcttctg gttactcgca tgagttgcc a gatatggtc ttgaagttgg tctgaccaac 360
 tatgcagctg cctactgcac tggccttctg ttggctcgcc gtgtgctcaa gaccctgggt 420
 ttaga 425

<210> 55930
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D11

<400> 55930

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 gaatggaaac gtaaatacgc acaccgtcta ctgaagggat agactacatg tatcctgatc 180
 aggaatgatg caccaatacg ctgacctatg caggccaatc gaattcagat caacctatgcg 240

atctactatc acggacatca caaggcatat catctctgct agtatatcaa gtgatatcac 300
 taccggttgt gcatacatag ctgaatagcc acgatatgct attgaagatg ctgttaccaa 360
 ctatgacgaa tgg tact 377

<210> 55931
 <211> 109
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D4

<400> 55931

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 tgttacggag aacgaccaac agcgaacaca agacaagcgg atttgttgc 109

<210> 55932
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A5

<400> 55932

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 agtctgttta acattcgatt tcaacttgctc caaacgaaaa atgcgatcca atgttcgtgc 180
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 aatgtcttgg tggt 254

<210> 55933
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A7

<400> 55933

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ccattccttg agactagtgc caaggatgca acaaattgtgg agaaggcatt catgaccatg 180
gcaggggaga taaagaacag gatggcaagt caaccagctg caagtgggtgc tagtaggcct 240
gcaactgtgc aaatgcgggg tcagcctgtt tctcagcaaa gcagctgctg ctcttgatcg 300
tctgtctaga tcacagtagt gtgattgtgc agcaagcaaa acttaaattg gttgctccct 360
gtacattaag cctattactg tcccaaagaa ctcgatgtta tctatcggat actgg 415

<210> 55934
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A8

<400> 55934

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caaagaaggc agcggctgcc aagccaaaga aggcgctgc tgctgggacc aagcgcaaag 180
tgcccagaaa gaaggctgtg gcgaagccga agaagtcccc cgccgccaag gccaaggcca 240
agccgaagac cgtgaagtcc cctgcctcca agaaggcacg gaaggcctcc gcatgagatg 300
ggttgcttta ggtctaagct ctgattgtgg ttgggtgtcag ttaggtactg taaaaactaa 360
gtgtgtgccc aaagtgtctc aggcgggtgtg ttatgtgctt agcaagttct atctatcaga 420
gtgttttagt ttaa 434

<210> 55935
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A9

<400> 55935

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cacggcctac ccttacagcg ccttcacac ctccgtccgg aaagacgtga tcaaatactg 180
caccaaccat acaggcatcg tccagcccgt gctgccgtg gagaagaatg tccccgagct 240

ctggttctac accgagctca aaacgaagac cagggtccatc acgctcgcca tacgtatgga 300
 caacctctac ctggtcgggt tcaggacccc cggcgggggtg tggtagaggt tcggcaagga 360
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<210> 55936
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B1

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 gggcgccgcc aaggccgatg ccaagctggc ggtgaagagc aagggggcgg agaagcccg 180
 caagggcagg aaggggaagg ccggcaagga cccaacaag cctaagaggg ctcccagcgc 240
 tttcttcgtg ttcattggagg aatttcgcaa ggagttcaag gagaagaacc ctaagaacaa 300
 gtctgtcgct gcggtgggaa aagctgctgg cgacaggtgg aaatccctga gcgagtcgga 360
 caaggctccc tatgtagcca aggctaacaa gctcaagcta gagtacaaca aggccatcgc 420
 agcctacaac aagggcgag 439

<210> 55937
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B10

<400> 55937

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 gaaaaaatac gagaggagct cgggtggaaag taacatcaag cttgtggctc cagcgtccag 120
 aggatgcgtc actgatgagt aggctgtgtt acattctgtt cggttgcgca catgatgcgt 180
 tttcaatcca aggctgtttg ccaggaacaa ccatgctgtt agagtgactc atgatagcgc 240
 agtttgcgta tggcaggtat aataataaaa tgcccgtttc tattagctca gcaatgctac 300

agaatctgct gaataatcga ccgtaatatg tctgtttaag cttgtgagca atcacatcct 360
 ttccagtctc tcacttgctt tgcttgctcc attgcctcta ctaccttgt 409

<210> 55938
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B12

<400> 55938

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 cacggacgag cagatcgcg agttcaagga ggccttcagc ctcttcgata aggatggcga 120
 cggctgcata actaccaagg agcttggaac tgtgatgcgc tcccttggcc agaaccacac 180
 tgaagcagag ctgcaggaca tgatcaacga ggttgatgct gatggcaatg ggaccattga 240
 cttcccagag ttctgaacc tgatggcaag gaagatgaag gacaccgact ccgaagagga 300
 gcttaaggag gcctttcgcg tcttcgacaa ggaccagaat ggtttcatct cggctgctga 360
 gctccgccat gtcataacca acctcggcga gaagctgact gacgaggagg tcgacgagat 420
 gatccgtga 429

<210> 55939
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B2

<400> 55939

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 ccaagacggc cgagaacttg cgctgctgt gcacgggcga gaagggcctg ggctccgcg 180
 ggaagccgct gcaactacaag ggctcggcct tccaccgct catcccaggc ttcatgtgcc 240
 aaggctgcga ctttacgccg ggcaacggca cgggcggcga gtccatata 289

<210> 55940
 <211> 368
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B3

<400> 55940

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aaggcctaatt ttatgcgctt tagctctttg gtcagaactt gagactcatg tgttaaaactc 180

gacttgctaa agacttgatg gctactttgt gcttggttga ccagctataa tcagaagatt 240

gaaattttct caaaaaaaaa agcacagcaa cgggcagaga gtacatatac tgcgccagga 300

tcgtctacta aaactgtaaa actgcgcaaa aaagggccgg ccgtgttcag gatccaaaat 360

tccgtacc 368

<210> 55941

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B4

<400> 55941

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aatgaagcaa agagacatga taagagggct tcatgtgctc gactactttg gaaaccaatg 360

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<210> 55942

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-B5

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 cctggacggg aagacaccta tcgatgtcgc caagctgaat aaccaggacg aggttctgaa 240
 gttgctcgag aaggacgcct tcctttgaat accatgcctt tcgtatacac ttggactctt 300
 ggtgtcatgt ttttttttca taccggttgt ttttgtctgg atagccacat gtcatggtcc 360
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<210> 55943

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B6

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 cggccgcaag gagtgtgtgg atcttctttt gaagcacggt gctgctgtaa ctctccaaaa 180
 cctggacggg aagacaccta tcgatgtcgc caagctgaat aaccaggacg aggttctgaa 240
 gttgctcgag aaggacgcct tcctttgaat accatgcctt tcgtatacac ttggactctt 300
 ggtgtcatgt ttttttttca taccggttgt ttttgtctgg atagccacat gtcatggtcc 360
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<210> 55944

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-B7

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aacttagtag ctcagcatcc aaactttgat aatatcactc agttgttcag cttcaactac 180
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gcaagccctc taacaaaacc attggcactt ccattcttg 459

<210> 55945
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-007-Q1-K1-B8
<400> 55945

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cacgtcagac ataacagacg acgagaagaa ctgatgtagc catgttcacg ccttcacg 360
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<210> 55946
<211> 419
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-007-Q1-K1-B9
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 gttcatggcc atgcaagaaa tgaaataaca tgccaaatgt acggctgagg gctgacaaca 180
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<223> Clone ID: LIB3088-006-Q1-K1-H1

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 tgcttcaa at ggaagtgggt atgtgtggga cgaatcactt gaggtccat tctgaatggt 300
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<210> 55949
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-H10

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 <211> 331
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<210> 55951
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tcaccggcaa cccgttcac gactacacgg acgtgctcat cccggccttc atcacggcgc 180

acccgctccg cggcgagggt cagttcctgg tgagcatcta caagtcgtgg tggatgaacc 240

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 <212> DNA
 <213> Zea mays

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 2. \mathcal{H} is a separable Hilbert space.
 3. \mathcal{H} is a reflexive Banach space.
 4. \mathcal{H} is a Banach space.
 5. \mathcal{H} is a normed space.
 6. \mathcal{H} is a vector space.
 7. \mathcal{H} is a linear space.
 8. \mathcal{H} is a module.
 9. \mathcal{H} is a ring.
 10. \mathcal{H} is a field.
 11. \mathcal{H} is a division ring.
 12. \mathcal{H} is a skew field.
 13. \mathcal{H} is a quaternion algebra.
 14. \mathcal{H} is a central simple algebra.
 15. \mathcal{H} is a matrix algebra.
 16. \mathcal{H} is a Lie algebra.
 17. \mathcal{H} is a Lie group.
 18. \mathcal{H} is a Lie ring.
 19. \mathcal{H} is a Lie superalgebra.
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 100. \mathcal{H} is a Lie supergroup.

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aagctgttga	tctggtctct	cggctactcc	agtactcccc	aaatctgaga	tgcactgcta	180
tggaggcact	tgttcaccca	ttctttgatg	agcttcgaga	tcctaatact	cgccttccaa	240
atggtcgctt	tttgccacca	ctattcaatt	tcaagcctca	cgaacttaaa	ggagtcccat	300
cagacattgt	cgcgaaattg	attccagaac	atgcaaagaa	gcaatgctcc	tatgttggat	360
tgtgaaatg						369

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A1

cggacgcgtg	gggcccgata	tgtgccaaaa	cgcgcacaca	aagggaagaa	gcacactgtg	60
catagtttga	aggaagagta	tgagaaaaaa	cgtgctgagg	aggagaaggc	taaggaagag	120
cgtgatgcaa	tggttcaggc	aaagaggggag	caccgggaga	agtctgaggc	gaagcggaaa	180
gaactgaggg	agaagatgtt	caagaagaca	agatctggcc	aacctgtgat	gagataaccg	240
atcgagcatc	tcttgagagc	tgactgagc	aagtaacacg	atacgtcgat	accaacctcg	300
ccttttgaga	ccaaagtgtg	ctaccaaatt	ttgtagctcc	gtgcaaccat	ttgtttactg	360
taaccgtett	ttgtcgcttc	atcngtgtac	atatctttgg	atttngtgat	cata	414

<213> Zea mays

<400> 55960

aaaaaacata aaaaaacaca aaaaaaaaaat taaaaaaaaaa acaaaatata taaggggaaga 60

cctatatatg aattaaaggg agttattcta tcgatgtcac aagcctatag aaaactgaca 120
 agtgtcagtc ttgatctacg actccctgcg atcatactcc tgtgactgct ggtagtgctc 180
 taatgcagcc tgtcaaactt cttgatgccc ccactaatac aaggtcatga ctctggaaaa 240

<210> 55961
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A2

<400> 55961

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 catagttaga aagaagagta tgagaaaaaa cgtgctgagg atgagaatgc taaggaagag 120
 cgtgatgcaa tggttcaggg aaagagggag caccgggaga agtctgaggc gaagcggaaa 180
 gaactgaggg agatgatgtt caagaagaca agatctggcc aacctgtgat gagataccgg 240
 atcgagcatc tcttgagac tgcactgagc aagtaacacg atacgtcgat accaacctcg 300
 cattttgaga ccaaagtgtg ctaccaaatt gtgtagctcc gtgcaaccat ttgtttactg 360
 gaaccgtctt ttgtcgttc atcgatgtac atatctttgg attcgttgat cata 414

<210> 55962
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-G7

<400> 55962

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 agttgacaga gccaaaggaga tgctcggcac gttcagcccc cagctggagc cctacacgta 120
 cgtgacgccg gaggacacca cccgctcggg aatgtttgcc cgggggtcct actctgccag 180
 gaccaagttc ctgcagcagc accgcaagtg ctacctggag atcaactaca ccttcgacat 240
 ccgcccgggag tggccgtcga cgagctgacc atccttcct cctccatcg gtggcctgag 300
 cagaccagtc gtttcgttct gagttcttcc ttttctgtgt tgccctgtcc tgcctgtcc 360
 tgtccctagg tttttt 376

<210> 55963
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-E7

<400> 55963

cgtcggtctc agcgctgcaa ccgttcgctc gcctcaaggc taacgacggc gctccgagtg 60
ctcctgggcg cggaggcggc ggcggcggn gcgtgtcttc gaggccggct ctgaagacgg 120
accagttcct ccgcaccgct gcgccacagc atcatcgga ggaagtgcag ttcctttcct 180
ccgaccataa gaagcctcag ccccgccggc ctcctggacc accccttatt ggcgagagg 240
tccatgggac gatcgatgga gctttcgatt ccgggtacct catgacggcc gtcgtgaatg 300
ggcagctctt cagaggcggt ctgtttgctc cgggacctgg ggttacggct ccgagaccga 360

<210> 55964
<211> 124
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-E8

<400> 55964

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aaaaaaaaaa aaaaaggggg aaaaaaaaaa aaaaaataa aaaaaaaaaa ggggaaaata 120
aaaa 124

<210> 55965
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-E9

<400> 55965

cggacgcgtg ggcggacgcg tgggattttg acaaggatca tagcgggcac attacagttg 60
atgagttgga agaagctttg aagaagtatg atatgggcga tgaggcaaca gttaaagaaa 120

ttattgctga agtagacaca gatcacgatg ggagaatcaa ctaccaggag tttgttgcca 180
 tgatgaagaa taatagcccc gagattgttc caaatcgag ggcgatgttt taaggctcat 240
 ctctacatt taattggaaa aaagaaagac ttctaagata tatttttccg cggtcagagg 300
 ggagagcaac tgatactga aagtgggatt cagcctgggc atatgtgcaa tgatattaca 360
 gactttggac aagtcacag tcatgg 386

<210> 55966
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F1

<400> 55966

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 aaaaaaatcc ggtcttctt tctcggggtg tctgccttc tttccctctt ctttctacc 180
 tcttatttt cttttcattg cccccctttt ccttactccc cccctgttaa accccttgcc 240
 ttcctttaat aaccctcctt ttcccccatc catctttctt tcatatattt ttctctttc 300
 accccccccc ctttctccat tctccccctt ctttctctc ttttctctt tt 352

<210> 55967
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F11

<400> 55967

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 ttaaacttag tcgctgttgc ctgctttttg atttcacttg attccttctc tgggtggtacg 120
 tgatggctct ccgtttcttg tatgcatgta tgtatgtatc atcacagttg tgggtgcttc 180
 tctggcggcg aaaccgag atagatagat tcagtgttgg accgagaacc atggatggat 240
 ggatggaaca tgcatgcccc gtgattgttt gcgccggtga aagttcaatt tgtccggatt 300
 tattttctct gaaatagtat atgttttttt ttctccatcg gtgagccggt gatcttgtca 360

atttgtacaa taatcattat atg

383

<210> 55968

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F12

<400> 55968

aggccatcca aacagcacca tggatcggtg tatagtcctg gacccctcaa gggacgccag 60

caaggtagca aatttggtgg cagtactaca agttggagtt ctgttggcag catatttggt 120

actatcgact tgagtggcaa tcaacaaagg ggcagcatgc catttggtag tcacaatggc 180

tctctggagt ttatgaatta gcaaaaccat gggccacgcg ctacaaaatc gaagatacaa 240

ggcacagaga acacctcagg agatgagaga agcgagaaaa ttgttcctct gattgatagc 300

gaactgtaca atcactctga ttttataacc gagtacaaag atgccaaatt ctttgaata 360

aagtcctaca c 371

<210> 55969

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F3

<400> 55969

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tggtcaggtg ttctggcctg gtattgctga tcgggaaagg gaggagaaat acattaaaaa 120

gctggataag aagctcaaga acaaggtgaa gttacttgaa aggcagaagt ctggttacaa 180

gcagaagccc ctgggacaat gaccatgact gaagagctaa caattcaaga tttttttcct 240

tgccacgtcc ggtgcatgca tgtggaagag ttggagcaca aaaggcaccg ctgttgtgaa 300

tacgcattct ttctacgcct cattgatctc cctctccaaa gatgtttggt gagtctggag 360

gatattgtca ggatggaaaa gcaccaattt tttcctgttc gta 403

<210> 55970

<211> 200

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F4

<400> 55970

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 ggagtttttg tgaggaagag cttgctcatc atcatggtta ttggactctt tactggcggt 120
 gatatatata atatatgtat gtataaaaaa aaaaaataaa aaaataaaaa taataatata 180
 taaaaaaaaa ttattaattt 200

<210> 55971
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F6

<400> 55971

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 caagagggtta tgcaagctca gaatgagctt tgtcaagaag cccaagcgtc gaatgctccg 120
 ggtttaagca taatttttgg ttggttgagg cggatgatca tgggagcgga caccaccaga 180
 tccagttata tctcggaaga tcagaaaatt gtagtcctt aactgtgcct gcccttgtga 240
 gtgactatgc aacatcattt ttcgaaggcg agagctatgt atggtttctt tttttttact 300
 ttttttttgg tgatgccctg ggcactccgg tgatgtttga tgcaacacct tgcattccat 360
 tatagcacia taacgcacca ttttactgaa ttttaattac acttgggggg agggg 415

<210> 55972
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F7

<400> 55972

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 aggaaattga gataggcatc aaaccaaaga ggatttagag attgcaggat gcaagtggta 120
 gagctaggga acttttagag tttctggtaa ccattttatc tattgtagta ccttacaaat 180

taggatatgt tacatagttt catcttcgct aactgcatat cagttaagtt aataactctg 240
 ttggtttcaa gcatttgcaa taagtacagt ttacc 275

<210> 55973
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-006-Q1-K1-F8
 <400> 55973

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 ccgtcgccgc gctgcaggag gcgtccgagg cctaccttgt cgggctcttc gaggacacca 120
 acctctgcgc cattcacgcc aagcgcgctca ccatcatgcc caaggacatc cagctcgccc 180
 gccgcatccg tggggagagg gcctaggcgt cgctcgcggtg gaggtggaag tagtagtcgc 240
 agtttctgtc atcactgtct ggctagaagt tgtagagatg tgccggttta ttagtatttg 300
 gttattggtc gaatcattat gtagttgggt cttactgct gtaatttaac tatgactatg 360
 caatggcaat gaagttctcg gttatcactt cccg 394

<210> 55974
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-006-Q1-K1-F9
 <400> 55974

gcgcagcccc actcagatcc taacaccatc aagcagattt tagctcagca ggtaacctct 60
 ccggtgcaat gggaaaccac tgtaagaat cttatgggca aggggcttga gaaaagttat 120
 gaactcggac ctggaaagggt tatagcagggt attctcaaga ggatcaacaa aggcactagc 180
 attgagaaca tcggggctta aacgtctggg atctgaagaa ctcttgatgg aaccaagtta 240
 cacagcagag gattgaaaca tgccattatt gtggaacgat gtttccactc agagttaccg 300
 tttttttacc ttagtggttg aattttgatc ttgatgtaaa attgacatga aacacatatg 360
 gttaatgatt ttatgaacag tgtaattttc aca 393

<210> 55975
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-G11

 <400> 55975

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 caaaaaacat cgaccaggat ggcatctcca acccgtcagg caccggcacc ggcaccggca 120
 ccagcaccgc caccgttcct cgttactccc atcatgctga tgctgtggct gctgctcgct 180
 tcatcgaca cgcgcgggcg catggccgcg ccgcccaaca cggaggcgct ctcggtgctg 240
 tgcaatggcg cgctctacgg cgccggggac cccttcgca cgagcctggc gttcgtgctg 300
 tcggagctgg tgtccgccac gccgggtccgg gcaggccacg acttctacga ca 352

<210> 55976
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-G12

 <400> 55976

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 gttttgctgg agatgatact catgcggtat gcggacagcg gcgagacggc tctgttggag 120
 gtgtttggtc ttatgtccta cacctgcgtc gaggtgatct aggagctggt tgaagagacg 180
 gttgatgctc tactgactga ctgctaacga gtgatacttg ctgctgatgc taacactgct 240
 cccataatac actcctaaag ctgggatggg tgtctttgcc ttggtcacat tttttgtttc 300
 gaccggcat 309

<210> 55977
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-G5

 <400> 55977

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aatgctgtca ttcattctaga gtcaattttt ccatgcgaaa agcgtattga ttttttagac 120
 tcacttgtgg agaagtttgt tacacctgaa tcatctcagg gagaggtggc aagtctagtt 180
 gacaaagagg aaatatcttc catattttta gagtttttgg atctcttttg ggctgttgga 240
 ataagtata ttttagagta gtttaacta gtagctaggg tcaggattta catgtttatt 300
 tgcaatatgt cgacgcaaaa ggattcggtc tttatactga taataaaccg ctattgattt 360

<210> 55978
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-G6

<400> 55978

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 aaatgctgtg attgctgtga aatcaattct ttcattcgaa aagcgtattg attttttaca 120
 ctacttttg gataagtttg ttacacctga atcatttcag ggagaggtgt caagtctact 180
 tgacaaagag gaaatatctt ccatattttt agagtttttg gttctctttg gggctgttg 240
 aataatttat attttatagt agttactact aatatctaag gtcaggattt acatgtttat 300
 ttacaatatt gtctatctca aacgattcct gcctttatac ttgataataa a 351

<210> 55979
 <211> 217
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-006-Q1-K1-C7

<400> 55979

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 tacaacatgc agaattgtgc cgttttttcta cacatggagg tccacttggt ccattccatt 120
 ttgttatctt ttgtaaatga ttctaggcct gaaatgaaaa aaaagacatg cagttcattg 180
 tcagtacaat tccagtgggt actgtggact tagctca 217

<210> 55980

<211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-C8

 <400> 55980

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 ctcggcggcc cagctgggtga ctctcgggct atcactcctc tgcgctgtcg ccggcccggc 120
 cgccgcgcag aactgcgggt gccagccaaa cgtatgctgc agcaagtttg gctactgcgg 180
 cacgaccgac gagtactgcg ggcacgggtg ccagtcgggc ccgtgccgct cgggcggcgg 240
 cggcagcagt ggcggcgggt gtgcgaacgt ggctagcgtc gtcaccggct ccttcttcaa 300
 cggcatcaag agccaggccg ggagcgggtg cgagggcaag aacttctaca cccggagcgc 360
 gttcctgagc 370

<210> 55981
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-C9

 <400> 55981

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 acatgtctcg aatgccagca accacataca acaaggcgtg agcgcgctcc agaacgcgaa 120
 gaagctgcag aagaactcga ggaagtggat gtgctacgcc atcatcctgc tgctggtgat 180
 agtggcggtc attgtcgtcg cggtcatcca gccatggaag aagtgagcct aggggtggctc 240
 taaacagggg ggagggcgtg ggagatactt ttttttggct gtctgtgtaa tatctgtgca 300
 gttgttgggg gtggttctgt gatttatggg tgtacttatg gtcggcacca gagaagcttt 360
 ggtatttcca ttctttct 378

<210> 55982
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-D1

<400> 55982

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ctacaggagc tacatcgccc agctgaagaa ggccatagac cagggagcga acgtggctgg 180
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cggcatcgtc tacgtggact tcaacacgct cgaacgccac ccgaaggcgt cggcctactg 300
gttcaggagc atgcttcaga agcattgaga tctccagagc cgagcctgag cacggaaggt 360
accattttgt tcagcttcgc ctagtggttg gga 393

<210> 55983

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D10

<400> 55983

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atctttctgt tgatgtttgc aggttatttt tccagcactt gacattcgag tgaaaaatgt 120
cgcagggaca tattctcttg aacataaagg agaaaatgat ctcttcgcac atcagacaag 180
gcttctactc tttcagaaga aagtcatttt taggagaatc gtgaacaaaa tgaccagatg 240
tttaggcctg gttggaagga catttttcga atgaatcaga gtgagctcga ggctgagatt 300
tgaaaaggtc tctcgagatt ctactcttga tccaaggagg aaggcctatc tgatccaaaa 360
tctcatgacc agccgttgga tag 383

<210> 55984

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D11

<400> 55984

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tcttgggaaa gagcgacaaa tttgatgagc tgatggccgc tgctgcagaa gagaggggcg 180
aagtgaaga tggatgaagag caggcttgaa aacagtaccg atgacaagct gctgctgttg 240
tgctctgtta gtgttgttta atttagttta ataccgtgtg catgagatat ggcacgcgtt 300
catcaccatg gcaatgtctg caaatccatg gattgatgga tggatgttgg ttgtttctta 360
acattctgga cat 373

<210> 55985
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D2

<400> 55985

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gggtacaaaag aggggaatcag taaagaaaat tgcagccatg ttgtagatga tggatcgagg 180
ttaattttcc atacagatca agatcacttc tcttggagtt ggccaatggc cagcagtgct 240
tcgatcatct actcctgata atcaggatgt gctgaatggg gagcttgtct tgattgaacc 300
tcagtttggt tgagatgaat tgacaagggt gcgagaagag gctatggaag gagctcgaaa 360
taagtggggt gccagataaa tgatgttttt 390

<210> 55986
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D3

<400> 55986

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acccccagca tgcgaaagga tgccttgagg ttcattcagc tccgggatga ttataagaca 120
gcgaaaatcg cttcgatgct caactatata atgtccgagt aatgagtga gtggaaccgg 180
tagaccgtta cactttgctg ctctcgtgga ctattgatgc cgctgtata aatgaccttc 240
gaaattatgt atatttgggt ttccaattta tctgtattgc tagcctgttt tgattgggcc 300

ttgctcagtt tgagctgaac atgctgggtca gcttcatgag gctttttcat gggttattta 360
 taagttattt tctcatgtat attatgtttt ttattaaatt ttgtaattta atttatatat 420
 tt 422

<210> 55987
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-006-Q1-K1-D4
 <400> 55987

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 acgcgctcat tatcatggga ggaggatatg agctcacctt cgcctttact tgattcgaca 180
 aacttaaccc ccatctcaag cgtggatgac gatgaacttg aatgtgtttc ctttgtgcaa 240
 aagattgtat catctgcttc tgggctaggc gacctgcggt tggatatggt cttcacaggc 300
 tggacttgc ctgactgccc tatagaccct gcattgtgcg acaagctatt ggaccggaag 360
 gaggaggctg ctaaactcgag ggagc 385

<210> 55988
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-006-Q1-K1-D6
 <400> 55988

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 aaatactgtg ggggctgaaa taaacttacc aattataact attaatacat aaaagttcaa 120
 agcactttaa cattaccatg accagatcta agttctaact ctcttgtaag caatcttatt 180
 gataggactc tcataccttt gttgaacttc cttaaagata cttgcatctc taataccgag 240
 attgatcatg ttctactggt tgttgggtatg actacattac catatctcca ttttaagttgt 300
 ttttttatat at 312

<210> 55989

<211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-D8

 <400> 55989

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 ggaccccgtc accgtcgagt acatcacccg ctacatcgct gggctgcagc agaagtatac 120
 acagagtggg ggagtcggcc ctttcggcct ctccacactc attgtcggct tcgacccta 180
 caccgacaag ccagcgtgt accagaccga tccttctggt accttctctg cttggaaggc 240
 gaacgccacg ggaaggaact ccaactctat gcgtgagttt ctggagaaga actacaagga 300
 gacctccggc aaggagacca tcaagcttgc tattcgtgca cttctagagg ttgttgaaag 360
 tgggtgggaag aacatcgagg aagcagtgat gaaattatgt 400

<210> 55990
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-D9

 <400> 55990

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 cggaaagcag cttgagctgg aaggtgtgga ctcttcaag aagagctttg acagcctact 120
 cgtgagccta caggagaagg gcaacagcct caagacggca actgtgtaaa actgagaaga 180
 ttgggtaccg gcgggtgaac gattttacta aataaaatgc tagcttgctg gctctcttag 240
 tttttacgat gtacctttgc tctccatttt ctgaatcggg attgtattct aggcttgctt 300
 ggccgtcatt gtgtgaccaa cgttcatggc ttgtaacaag ggatcggacg taaacggttg 360
 gaaa 364

<210> 55991
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-E1

<400> 55991

cccacgcggtt cgggggagaa agactcgatc caggcggcgg ccatgtccat gcgcggcaag 60
 ggcggcaagg gtctatgcaa ggggttgaacc aaaccccacc gaaagggtgt cgcgcacaac 120
 atccagggca tcaccaagcc ggcgatcctg acgctggctc gtaagggcgg tgtgaagcgc 180
 atctcggagc tcattacta agagaccgcg ggcgtgctca agatcttact cgagaacgtc 240
 atactctact cctacacact acacctagca cgcgcgcaca gaagaccgac accgacatga 300
 gatgatctat actcgtctca 320

<210> 55992

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-E10

<400> 55992

cgagctcaac cagccagttc acgttccgca ggtctcgctc tctttcttca ttaggctcga 60
 aggccggagg tgtagcgagt gcggtcaggt tctgcccagag agctactagc cgtccgtcta 120
 ctagtcctgg accaccggga tctttggatg caccgatgac ccaaaaactt gccgaactgg 180
 attgttttgc ccctgcgtgc tg 202

<210> 55993

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-006-Q1-K1-C5

<400> 55993

ggcgctctgt gctgaacaca atgttcacct tgctactgtt cctgctgcta agactcttgg 60
 cgagtgggct gggctttgca agattgactc cgagggcaag gcaaggaagg ttgtaggctg 120
 ctctgtgtgc gttgtcaagg actacggtga agaactctgag ggccttaaca tagtgcagga 180
 gtatgtcaag tcgcactaga tgtaacacgt ttcagtaata ctctacattt ggatctgggc 240
 ttaatattat gcttgcgtct tgggcttgct aggagattag gacaatttac tacaagagcc 300
 catgaggata tgagcaattt ggaattctaa atgttttgtt tatggtgttg tcattctggtt 360

<400> 55996
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tgcccacatg tacaagacgg accggccgaa gtacgagtcg acggcccgca gctggacgca 120
gaagtacgcg atgggctgac gaacgctttc ctgctcgtct gggcgccatt gttcccttgg 180
atttgttgtt ggctgtatgt atccctgacg catctaggat catcgtattg tattgtagtg 240
tatgtatgtc gtcggcctac catcgttgcc atccaccata gtgaggtggg tggacatgct 300
tcgcctatat gcacctgtgc ttgccttcct tcgggtcggt gctgtttggg taatgttcat 360
cgaagacggt gatttcgttg ccc 383

<210> 55997
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B11

<400> 55997
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ggagaagaaa gagaaagccg catcgtcttc ggcgtcggtg tcagtgtctg gttcggggtc 120
aggatcgggg tctgtatcca aggatgtcgc tggaaggcgg gcgaagaggg cgcagaagcg 180
agaagctgca gataaggcag ctgcagagaa gcacctgaag cacctgcaga ggttggggct 240
gaggaaatcg ccagagcctg tagtgcccgc ggagggtggg ccacaggtga atgagtgact 300
taagccgccc cagagtgcta tatggtgctg ctaaaaacac tgcagccctt tgggccacaa 360
aataatcttc cactgtgaag agcttg 386

<210> 55998
<211> 265
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-B12

<400> 55998
gtgccctctg tgccgcggag acgtctgcta agtcgcctcg tgaagacctt ggcgctgcca 60
tcccttcctc acggcaccgg cagatagcgc atccttcctg ccatcaactt tttaagatac 120

cgagactgta tatagctctt gtagcctctc cgtgtatgac aacctgtaat atatgtaatt 180
tctagattcc aatgtcccat tattctgtcc tacattcaga tcttattctc gcagccctga 240
tgctcaaact agctttacca gantc 265

<210> 55999
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-B2

<400> 55999

gttgactaat gttagtgttt gtggcggacc attgtccctt aatgggctac ccatttgcac 60
tgggcatgct tctttttctt aaatgtggta tgtatgtgca agtgtttgaa gtttaggctg 120
tcatgctata tgtcagctat caaagtacca aatgcaacta ctgttctgag ctgtttgctt 180
gttacgaaac agctttccaa aaaaaaaaaa aaaaaaaaaa aaaaataata aaaatnataa 240
aaaaaaaaac aagaaaaaaaa aggactttat gtagttaaga atgaacctat aaacaaattg 300
ttctgaattt attact 316

<210> 56000
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-B4

<400> 56000

cccacgcgtc cgcccacgcg tccggcgaga cgcgagtcgt cctcctctct ggcttcggtc 60
ggcgatctat caaggagggt gagggggaaa tggccganaa tccgcaactg tttgggaacg 120
ggatgccggt gccgttctac ggcgagatgt tcgtcctcgt ccgcgacggc gtcgagttcc 180
acgtcgacaa gatcccgctca gtccttgag gtcattgtgaa aacaaaaggc acaatttacc 240
tgtccaatat aaggatggtg tttgttgcca gcaagcctgt tggcaacttc tttgcttttg 300
atatgccact gttgtttgtg catggtgaga agttcaatca gcccatattt cactgcaaca 360
acatctctgg attcgttg 378

<210> 56001
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B5

<400> 56001

ggagcactga gttcagttgc tgctgagaca aatccacatg atgctcctgt acctccgtgc 60
atcacacaac tggaaggtgg agttgtccaa gtagccattg aagtgggaaga ccgggcacaa 120
cgttcagcag taacaagagt gaatgctgat gacgttcgag taacggtagc tgccttgct 180
gctcgagggg aagctaacag tgagttgcta gaatttatgg gcaagggttct tggcctaaga 240
ttgactcaga tgacccttca aagaggatgg aataacaaat cgaagcttct aattgttgag 300
gatttgtctg cacggcaagt gtatgagaag ctctagaag ctgtacaacc ttaggcacgc 360
aagcaatgga gcaatgtggt atgcagtatg cg 392

<210> 56002
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B6

<400> 56002

gggctgccta ctctccccc tcttaccaaa tctcttctg attatgctta cgtacggttt 60
ttaagacggg cgggggaggc agctgatcta gattacctt acttcgtcta ccggctacgc 120
ctgttccacc atcaacgaat cgactgcata ataccttcta ctaatacggc catatccttc 180
acttcaaagt 190

<210> 56003
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B8

<400> 56003

accttggcgg cgagagccat gttcagtgga aggatggcaa ggtgggccag gacttggttc 60

tgaagctgag gaaggtcgag agtggcctga ttgtggtgca gctggagtgg gttcatgttc 120
ctggcgtgaa gctgtgaagg ccctgtctga atgagggctg atggagctgc agttgctgtg 180
tccctgggtt gattgttttg ttgtaaacga taccctgaac gtggtgatat gcggtgtatg 240
agtgaggttt gagtgtgatg ctttgttttg ggtacttcct ggtgacatga tgtgggtatg 300
actgccaaag gttgtggcgc accaataaga aacgccctgt cagcatgaca gcatgttgtg 360
agatgtaaac taagacttta gaacctaaat atacacgtga ttgggcgtt 409

<210> 56004

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C1

<400> 56004

cttacgcgta cggttgagtg gactggggct tgcacgagtc accaatcacc aacactgcta 60
gctctatctg aaagatgact ctaccacagg ctgtaccaca tgttttaggt gtcggacaat 120
tgctggaatc agcactacat gtggctggcc cggttgcatg agcatctgct tcaacctcac 180
ctattacata tggtaaatg actaggcaat gagaagccct tggattgggc accacgaaga 240
agctatcgag ctggctcgtc tatggacacg aatcaactat ggacagtcct atgccaagcc 300
attacactgt ccatcattac gtcattcccg aggtgaacct tgccacgttt cgcacat 357

<210> 56005

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C10

<400> 56005

ctacaccgcg gcactgtcaa cctttatgta tgttggtgca tgatgctagt ttgggtcatc 60
ctctgttcaa gagccatttt aggctatgcc tttaactttc ttaagtgtac cttcgtttgt 120
ggtcattaat aatgatcaag gacttctaga tagcccc 157

<210> 56006

<211> 378

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-C11

 <400> 56006

 atcgctttcc gaaaggcgga ttgatgggtg gtgggtctgg tgcgcggtag ttgtcgggtcc 60
 accctcacc caccagtgg gcagtgcagt ggccagtcac tcactcctac ccacctgccg 120
 atcttggtcg ccatggctcg cttgctttgg ttctcactca aaggaaagga accctctctc 180
 cacggtacga ccgggaccag aagcatccgc gtctgccggg cccacacctac cgtcctttgg 240
 catccggagg gccgtgcacg cctcggcgta cgacaagaac ctggaggaac aggtgcgccc 300
 ggcgttcgtg ccggacgatg tgatcggcag cgccgggagc cccgacaagt actggagccc 360
 ccacccaag accggcgt 378

<210> 56007
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-C12

 <400> 56007

 gaaaagcgca aggttttatt gcaaccgtgc agtctgtagc tatattgttg gcaccactat 60
 ttatgagtcc actgacctct tacttcattt cagaggaaac gcccttcgac tgcaaagggtt 120
 tcagctttat tgtggcgagt ttcttcttgg caatctcggt ctgcctcgct tggatgctta 180
 acccaggaat gaaggacaag ggcacaaaag ctgtcgtttc agacagcgct gatgaggaag 240
 cagcgcaagc accactactg gcaaaatgga ccagaccatg actccagctc caggaaactg 300
 agctataaag ctcagctgga gtgtgcgtaa aattgtagga tatgtgaatt agagtg 356

<210> 56008
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-006-Q1-K1-C3

 <400> 56008

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cactcaagtg gaccgtggga atgttttttt tgggtgtgtc ttgtgttcga tggcaacacc 120
caggtcgtga aggcaattga taacgctatc tccggcggcg cgggtgcagc tggagctgta 180
gtgctgactt acttacttgg tgatccagac cgccgggttc atgctgctca tcttctggga 240
gctgacgcgt ggacgtgatg gagcccatct gcttgtacat gacgtacatg tacttcatg 299

<210> 56009
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C4

<400> 56009

gtatgaatta tgtcataaat aaaagctagg gaaccttgat aaataacaga gagtaggatg 60
tataccacga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggc gtttaaaaaa 240
aacaacaaaa aaatccgggg gaaaccaa ataaaaat ttaaaagggc caaaaaaaaa 300
aaaaaaaaat gcccagggtta aaaaaatgtg aagagggaaa aaccagggg ttaccc 356

<210> 56010
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H10

<400> 56010

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gaacgtgtgg aagttccgga acacagtctc ggaggccctt gaggacatca cggtctgtga 120
ctacgacgag gatcgcgacg agatctacac tggcaaccg cactgcttg tccatgtgtg 180
gtcgagctga aagctgaaac tgcggggcgg ctttcaaccg tagcacggtg atctgggtctt 240
cacctgtgcg cgtattaaca gctactagt cctcacgtgg cacgggggtg gggggcacga 300
aagagggacc cccaagcca ctcaagtac agttcttatt tatctcagca tgccaagagc 360
actgtccatc attctgaaat cagaggcccc ccagatctgt tgtaacggac gtaccttgca 420

agtaatgaaa tccattcggt gatctgaa

448

<210> 56011
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H11

<400> 56011

ggcgcccgag ggcattgaaga gcctcggcac gtcgtactcc atgaccagcc tcggcatcgg 60
gagcttcctc agcagcgcgc tgctctcggc tgtgtcgcac atcacggagc gccacggccg 120
gaccggctgg atcctcaata acctcaacgc ctgcgggctg gacaagtact acgccttctt 180
cgccattctc aactgcgcca acctcaccgc cttcttcttc gtgtgccggt tctacgtgta 240
caacgccgag gtatcccgcg tcgtcgacac cgggagcagc aagcagaagc gggaagtggc 300
gatgcagccg gcggccgtgg gcgcagtgga ggccacccta tagtagctac tagtggtcca 360
ttacaaatgt agctgtcata ctcatacgta cgtgaaaagc tctgcgtgta cattgcgt 418

<210> 56012
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H12

<400> 56012

ggaacgagcc cggcgggagg aaggagaga gcgcgccaga gcggcgccga acaaccctgg 60
tccaccgac tctcctggac cgtggccatg gccatggccg acgcgtcccg atcccgggag 120
ctgtgggctg accgcgccga cgcctacctc aggatctcca ccttccccag ggccttcttc 180
accgtgctga aggatctgaa atatgctgac actcatgaat gggatgaagg tgagggcgat 240
tcagcaaccg tggggattac tgaccatgcc caggatcacc tgggtgatgt tgtctacgtg 300
gagctgccag aagttggcgt cagtgtgta 327

<210> 56013
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-H2

<400> 56013

ctggaaacct ttaccaaagt ggataccagc tcaatggaag cgcctatgtc atctcaaagc 60
acataagcaa tacatgggta tgggatcgtg ttcgagttag cggtggtgca tatggaggat 120
tttgtgattt tgacacccat tcaggagtgt tctcatattt atcatatcgt gatccaaaact 180
tgctgaaaac actagagggtc tatgatgaga cagcaagatt cctcagagag ctagaattgg 240
atgatgatgc actcacaaaa gctattattg gaaccatagg cgatgttgac gcctaccagc 300
taccagatgc taaagggttac agcagcctaa tgagatattt gctgggcatc acggatgang 360
aacgccagca aagacgtgaa gagatactag caacaag 397

<210> 56014
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H3

<400> 56014

gatgacaaga ggatccaaga gggtccagca ttgaagggtta ctgccctgac gttcaccgag 60
gcggcaaggg ccaggattgt caatgctggt ggggagtgcc tcacatttga ccagcttgct 120
ctccgtgctc cacttggcga gaacacagtc ctctagaggg gcccacaagaa tgcccgtcag 180
gccgcatgac acttcggcaa ggctactgga gtgccgcaca gccacaccaa gccatatgtg 240
cgctacaagg gaaggaagtt cgagaaggct cgtggcaaga ggaacagccg aaggttcaag 300
gtttaaaaa gttgcgggcc atcagcatac taatcactta ctaccgagta gtagcacatc 360
ttgctgcta ggatcggatt ctgaatgata tctaaagatt ttcgtgcctt gactactggt 420
tactggatga gcaagaagac aatgttcttt 450

<210> 56015
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-H4

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 tttgctgca cccagcctcg cgtgaggag aggactcca tgtaccgcat ctaccactcc 180
 ctgaagagca tcggataagg ccgcgacgcc acggagcagt tcgacgagtt cccgctggcc 240
 tataacaagg acgattcgga cactatgtag ctagctgacg ctgatcaccg attggattgt 300
 gggaatgttt tttgtcagg ctgctgatg attatatata ttatatgtgt 350

<210> 56018
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A11

<400> 56018

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 gcccttatcc tgcagatcag gttgtgagag acataagtgg gaaatttgca tttgtcctgt 120
 atgattgttc cactaagtcg gtcttcatgg ctgctatgca gctgttcagt tattccgaag 180
 acatctatct gatcaaaggc tactgctacg acgtacaatg gtaccactg gtattgacag 240
 ggcaactgat aggtagctcg tgttcataaa cctcataaca ggaccccgat ggaaatgttc 300
 cgttctactg gggcgttgac accggcgggc gtcttgtggt ctctgacgac gccgagctcg 360
 tgaagagtgc ctgtgggaaa tctgtgccc cgttcccc 398

<210> 56019
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A12

<400> 56019

gtctcgtaca gcccttcttt ctccatctc ccggagcagc acgtagacat tcagctgccg 60
 caccatttcc agcagcctcc gcggaacgtc cagatgctgt cccaccccaa ctccctctcg 120
 gatatggcgc agcaagactc gcttggggcg ctccgggggc tggacattgg aaaagggtcc 180
 atggctatga agccagaggc agaggtcgtg gtggtgaagt cagagggcag ctctgtatct 240
 gcaggtgaaa gcaacaccac ctcttagcta tacaatacat ctgccttcca agaagcctcc 300

gttttggttta gagttctttt gttcatagtc tgacatcctc cttccttgag ctgcttcgtc 360
cttctcagta agcctatttt ttt 383

<210> 56020
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A2

<400> 56020

tccggcctac gacgtacgcg taaaacatgc cgaaagccac atataaactt tacatgtgcg 60
tgtcagttac aaatatcata ccaaatttgg aagatcgga taagatctca agctatactg 120
tcgacaagaa tgggaagaag atacagaagt tcgagtttga gaagacgacg ccaccagttg 180
agatctgtaa cacgctttgg aaaacaattt agggccgtgc agatcgttgt tactgtctgt 240
taacgaagat tgtcaattgt acttgatat atagctgact agctgaggat ggtggacctc 300
tcattctcaa ttgtgcttga attagggcg tgcaaaccgt cattagtgtc tgctgatttt 360
acagtgtttt gatttcagtc agtataagat cg 392

<210> 56021
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A3

<400> 56021

gccacgcgta cgagcttga actcacatgg gggctatgac ggagagagag gagatgctgg 60
gcgtcctcac gacggtgaga tccgttgctt cacacactga catgacgtat ttctgcattt 120
caagttcatg aatgtggcag ccagagatta tcaactgtgt tttttcccta cggcttagaa 180
acttgacatg gccaagtttt ttgaccgag acatcgattg ttagtaatgt atatgaacca 240
ccttgaggta ttttgccctca acttccaatg catcaatggt ttgtt 285

<210> 56022
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A5

<400> 56022

cgccaagatt gtaggccggc tcgggcttga taaaaccatg tttgaagctt ccaactgcaa 60
cacctcggag tggttcgtca gacgttatgg cccaagggtg aatctctttg ttgaacactc 120
tgacgtgatg aatctggagc gcctccgggg cttcaacatg cgcagaagca actcggcctc 180
ccgttttgcc tcgccgttct tctgatcta atgggcta atggccattccc cttcctgaga 240
tgtgtaagat acttctacat gttctcacc tcgcagagct tggttatggc tagagatgta 300
accgcctttg ttaatgcctc gatgtagccc ccagcgagca gcgcatagca cctgttatgt 360
tgtcagcgtc gctactgata atc 383

<210> 56023

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A6

<400> 56023

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ctgcaacaac tggggggggg gcgtcagact ttatggccca aggataaatc tcttagttga 120
acactctgac gtgatgaatc tggagcgcct atgggtgctt aatatgcgca taatctactt 180
gaccttactt tttgtctagc tgatctttct aatctataag tataaatgcc attccccctc 240
at 242

<210> 56024

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H1

<400> 56024

cccacgcgtc cggcaaaagc ccaacaacga ctcatagaca atctgcctga tgagtttgca 60
aagggtgcaac gggaatacca tcttcgcgtc ggagattttc cttatgtgga gcacttcaaa 120
gaggctttga gcggttacag ctttgacaag tttgagaagg tgaagcccaa gatgatacag 180

gccgtggatg atatgcttgg atatgacatt cctgaacttc tcaagaactt cagaaaccca 240
 tacgagtga cccatacagg cggttgaaag atgacttcga tctgcaacag aatgagggat 300
 tgattgtcag gcgatgtgaa tcatagtggg caatgtctct tggggcggtc attgccatcc 360
 atgcttagcc attgctatat aactttatgc ataagaatca tagagccatt gctcaagctt 420
 tcaccagaca tctgattatg taaaa 445

<210> 56025
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A7

<400> 56025

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 cacatgcaca ttcagcgagt caatcctggg atcgtgtggc ttccatactg ggctgttcac 120
 ctcaccacat ttgatggatg ttagagagcg atttcagcta gatggagaaa attttgaagt 180
 actcctggtg gtgctagaac aagttgaagc ctatttcagg ttctctcgcg tgctcgcat 240
 caagatattt tctgctgagc aggtagatgt tgctattctc gaggttggcc taggagggaa 300
 gttcgatgca actaatgtgg ttgttagttc tcgtgaatg 339

<210> 56026
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-F3

<400> 56026

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 ttgcggaggg cactgccatt gaggacctgt tcaagcctga cagagtgtt atcgggtggc 180
 gggagacccc tgagggcagg aaggccgtcc aggctctcaa ggatgtgtac gctcactggg 240
 ttcccagagga caggatcctc accaccaacc tgttgtctgc tgagctctcc aagctcgctg 300
 ccaacgcgtt cctggcacag aggatctcct ctgtgaacgc catctccgcc ctctgcgagg 360

ccaccggcgc gaatgtgact gangtggctt acgccgtggg caaggacacg aggattggcc 420
ccaagttcct gaacgccagt gttgggttcg gt 452

<210> 56027
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F4

<400> 56027

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ccagctgatt gatatatcag aggatggatt tgtgagcctt cttacttcag atggcaacac 120
taaggatgat cttagactcc caactgatga gactcttggtg gccagatca aggaagggtt 180
cgaaagcggc aaggatcttg ttgtgactgt ccagtctgct atgggggagg agcagatctg 240
cgcgctgaac gatgttggcc ccaagtaact tcctgcctt ggaatactgt atctcaaaac 300
ctaaatcgaa aaaagaagtg tatcaaggat tgctacagag acattcatct ggcttgagct 360
ggcttttgct attgcaaaca caagtgcatt gatcgctggg tgttgaccg agtctgcatt 420
atctgtggtt acattctgga ccct 444

<210> 56028
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F5

<400> 56028

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aagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaacaaaat tttttatgga 180
agaaaaatacc tattataaca caaatgata aaaattatat aatagataat tttcataaat 240
tggaataatt tgaaaaggat tctaaaa 267

<210> 56029
<211> 402

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-F6

 <400> 56029

 aagaattcaa agatattttt tcaccattta gtcaccgtaa aggaagctca gacttatgag 60
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 ggcagagaaa gctgtcaagg caatggatgg caggattcta cgtggaagat tgatctttgt 180
 ggagatggca aaaggacacg aaagcaagta ggacaccctc cccacgagag gatttcactg 240
 aacatgaaac atgagagcgc catcagctta tgccagatgg caaatatccc aaattctcaa 300
 ttgatgttgc aacttatata caaagcaciaa gttaatttta gctagcttat ctttgataac 360
 actgctacct taccatctga atgggtgccg tgtattggta tc 402

<210> 56030
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-F8

 <400> 56030

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 agaggggaaat gtttatgact ttggacacac tggaagaacg cttcaactgg cttacaatga 120
 aacatgattg ggtcactagg atgattcact aggatctata attttttgta gcactatgtc 180
 ccattttcag tgctattatg tatctgttta atccttttta ctgcggtttg aacttgttgt 240
 gacattattg tggatggatt gtacctccat ctattattgc aacatgtttg gaacttgta 300
 tgagaattat gtttagct 318

<210> 56031
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-G1

 <400> 56031

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 gccaaaggcca tgtccatcat gaactccttc atcaacgaca tcttcgagaa gctggccggc 120
 gagggcgcca agctcgcgcg ctacaacaag aagcccacca tcacctnccg cgagatccag 180
 acctccgtgc gcctcgtgct ccccgggcgag ctcgccaagc acgccgtctc tg 232

<210> 56032
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-005-Q1-K1-G10
 <400> 56032

cggacgcgtg gggccgtctt ccactgcgct tgagtccaag gtcttctatc tcaagatgaa 60
 ggggtgattac tacagatacc tggctgagtt caagactgga gctgagagaa aggacgctgc 120
 tgagaacacg atgggtggcat acaaggctgc ccaggacatt gctctggctg agcttgctcc 180
 aactcaccct attaggcttg gactggcact taacttctca gtgttctact atgagattct 240
 gaactcacct gatcgcgctt gcagtccttg aaagcaggct tttgacgagg ccatctcgga 300
 actggacacc ctgaacgagg agtcctacaa ggacagcact ttgatcatgc agctccttcg 360
 tgataacttg accctatgga cttctgacat ctcgaggagc cctgctgaag agattagggg 420
 ggcaccaag cgcgactcga gtga 444

<210> 56033
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-005-Q1-K1-G11
 <400> 56033

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 gcaggcagga ggcccaccgc cttgccaccg agaagcagga gctggccggg cagctgggca 120
 cagagaggca gaagatggat gagctgaagc aggatatccg ggtgatctgc ggcgacttgc 180
 tccagcgga agggcagctc acgtcgattt acaccaagtc caaggccatc atagagagct 240
 gcaaggcctc ccaggtagct actctgcttt gatgggttca atgaccgctg ttggcttggtg 300

cattttttat acataaaaac agaaggacag cattttttat ttgagattat atccttcggt 360
ggcggtgcaa ttataatttc atcctcagtt tttttt 396

<210> 56034
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G12

<400> 56034

catgaaatgc agcatctgtc aggaagagta cgcggagggc gaagagggtg ggaggctgcc 60
atgcgagcac cggtagcatg tgtgctgcat aggccagtgg cttgggcaga agaactggtg 120
tccagtatgc aaagcgtctg ccgtgccttc caagggctga agcattgggg atgctggaaa 180
ccccgttccg gattacaaac catccttgct tttgtctacg tacattgttc ttttcctat 240
atgcattaga tatagatcat gtctagatgt atgacgctag aacagcttgc gatttgggag 300
gaagctaaga gagtaatagt tagctgggta ataatagttc atagctaata tttgctagat 360
aactattact tggctaccta ttagctgtgc ctttcacatt gtggtacagg acaaagtctt 420
gtcagatcgt gaacaacctt ataact 446

<210> 56035
<211> 195
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G3

<400> 56035

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tgtgggcaat taagagtga gcggtttgtg tttttgatgt caagacctca tatcgcgcg 120
agtagctaag ctcgaccata tattggtcgc cacgtatgat cctattttat ttaagtgtgt 180
tggcagtttt atcct 195

<210> 56036
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G4

<400> 56036

cccacgcgtc cgccccacgcg tccgctttca tcaattttcc ttggggaggt gcctacgcca 60
gtgggttggtg ttgtctcttc ttgcgattgt tgggtggtga gctttggcat cccttactga 120
ggcctccttt aactgggctg gattttggag tgcaatggct tcaaagttaa ccttccagtc 180
aaggaatgtg ctaagcaaga aacttatggt gaagaaagag gaatctctcg acaacattaa 240
cctattctcg atcattacag tcatgtcatt cttcctgttg gccccagtaa ccttacttac 300
agaaggtggt aaagttagtc cagcagtggt gcagtctgct ggtttgaact tgaaac 356

<210> 56037

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G6

<400> 56037

aactcatcct gtcggacgaa gatgtcgtgc gcttccagat cggggaggtg tttgctcaca 60
tgccgagggga cgacgtcgag actaggctgg agcagatgaa agaggatgcg gctaagaagc 120
tggagagggt agaggaggag aaggaatccg tctctgcccc gatggccgag ctgaagaaga 180
tactgtacgg gaagttcaag gacgccatca acctggagga agattaagag tagtactgga 240
gttgtgacaa cgtggctgtc tcgttctagt tcaggctctg tttttgttcc cctgctcccc 300
ccacagaagc gcttggcccc ctcgtgtaat ggaagcttga gtctctcagt ctttcagaag 360
ctctttttcac caagaaccca gaatagtttt cattctgcgg gtttatacgg attgaagcta 420
atggcgctga gcccatgaat cctttt 446

<210> 56038

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G8

<400> 56038

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atagtaagta attcacggcc aggtcattgt agactctggt aaccgtttcg gaaaatctag 120
 tgctatatct ggtggatgat tgtcaaaaac tatgcaaaaa ggcaatgcta acttttgtga 180
 aaaacataca tgtagtttta tcaaggaaat aaaaat 216

<210> 56039
 <211> 323
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-G9

<400> 56039

cccacgcgtc cggcccattg caaaaggggt gtgaccacat tgccaggatg caaaaactgc 60
 acgacgtttt gtccactgcc agtaatectc ctctgaatct ctggtcaatt tatagttcaa 120
 agctattggt gtaattctgt agtctgcact ctgcacaata tatntcttag tgcccagttc 180
 cagatcacgt ggtgtgatta tgcgtgggta tctagaccat atgtaaatac caagaagtta 240
 aacaaatgta ttatagcgtg cttgtttgag gaacaaaana aataaaataa ctaataacat 300
 aaataataaa agaactatct act 323

<210> 56040
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F2

<400> 56040

caaatttgct tttttatact atacctctcc tactcttaag agacctatct caatgggtga 60
 aggccctaca tttctccaat ataatccaca acatttttca cacagtatta tactttatct 120
 ccattttcta tccatatacc tatacctctt ctcaagacat atttcaaaaa taaacccaat 180
 tttataaatt caacttatta aacaagtaca attacctcta attcttatta accttaataa 240
 ttgaacccta tatecttttc aaatactaca aaaca 275

<210> 56041
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D9

<400> 56041

attggattgg gccaaaggatg gatttcattc ctggtgtcga tggtcctagt gaggggtgtac 60
gccgggtgct ggcttgcttc agtaacaatc tgctccgccg agagcctttg aagcttgctg 120
atggggggcca gtctcagaga acctttgtat acatcaagga tgccatcgaa gctgttggtgc 180
tgatgattga aaatcctgct cgagccaatg gtcacatctt caatgttggg aatcctgaca 240
atgaggttac ggtaggggag ttggcccaaa tgatgacaga ggtctatgca aacgtctcaa 300
gagaggcgcc gctggatgag cctatgatcg acgtgagttc gagtcagttc tacggtgaaa 360
gatacgatga cagtgataag agaattcctg acatgactat aatcaacaag cagc 414

<210> 56042

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E1

<400> 56042

aaattcccca gccttcgcc ctcatttgag cagacaccta aagccgtgga ggagctcaaa 60
cttgcaaggg acatttatga gcatgctgtt gttttgagtg tgaaacttga ggaccaagat 120
gcatttgaac gtgatttctg tcagctaaag ccttattaca tggatacatg tggcataatt 180
ccccctcac cagaggagta cccaattttg ggactcaatc ttctgaggct gttggttcag 240
aatagaattg ctgagttcca tactgagctg gagcttttac ctgtcaaggc acttgagcac 300
ccttgcatca agcatgctgt agagcttgag caatccttca tggaggggtgc ctacaaccga 360
gtgttaagcg ctgggaagc tgtgccacat gagacctatg ttacttcat ggaccttctc 420
gccaagacag ttagaga 437

<210> 56043

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E10

<400> 56043

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gggtgaacgg	caagagctgc	gtggcaaggt	acgactccaa	gactagccac	atcatgccct	120
tctgattctc	aacgccatcg	gtgatacaac	agtggaacca	gcatttgtct	gttacccttt	180
tccagtttcg	acaattattt	gaagtgattc	gttggaaagt	catacagtgg	gaaaaaatac	240
agaatgactc	ttggagcaac	acacaacttg	tatatgagta	gaggatttcg	gtcgaaagaa	300
atcaatggat	gaaacaaatt	cagctt				326

<210> 56044
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-E12

<400> 56044

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gagggccagc	acctcgccga	gcacgagctt	cagtcgctct	gcgaatacgt	gaaggagatc	120
ctcatcgaag	agtcgaacgt	tcaaccgggtg	aatagccctg	tgacggtttg	cggtgacatc	180
catgggcagt	tccatgacct	gatgaagctc	ttcgcgacgg	ggggccacgt	cccagagacg	240
aactatattt	tcatgggtga	ttttgtggac	cgtggcttca	acagtctgga	ggttttcacc	300
atcctgttgc	tactaaaagc	gaggtatcct	gcacacataa	cccttctgcg	tggaaatcat	360
gaaagtaggc	agttgacaca	ggtgtatggt	ttctatgatg	agtgtcagag	gaagtatggc	420
aacgccaatg	catggcggta	ttgc				444

<210> 56045
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-E2

<400> 56045

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ggcacctacc	acaccgcccg	ccgcgatcc	cgtctctcc	ccgctgcgga	gcgtctccag	120

cctattgttg tatcatcacc caactcagca tctgcgcaag cgtacgtaaa tgttgcgag 180
aaggtgactc aaaggctcaa ggagttagca gaggagcgac ggatgggccc agaaatctta 240
ctttgagaaa ttcaggctgc ttttctcaca cttttccctg tttgacgcta cggcgccaaa 300
acaatgtact gataagtaga ttgctgttgg aagtaaactt taaatttcgt cactctgtct 360
gaaaatttac tcaaacaaac ttctgctgct tc 392

<210> 56048
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E5

<400> 56048

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gaggttcttg atgaagctga acaacgaaac ggtgaccatc gagcttaaga acgggaccgt 120
cttacacgga accattaccg tttgacatca gcatgaatac tcactctgaag actgagaagc 180
tgacactaaa agggaaaaat cctgttacct ttgatcacct tagtgtgagg ggaaacaaca 240
tccgctatta tacccttctt gacagcctaa acctggagac tttgctgggt gaggaaacac 300
caagggctca gccgttgaag cctacttctg ggaagccctt gggacgtgag cgtggccgtg 360
gtcgtgggcg ctgtcagtgt caggagcgtt gagcatgcta gctgcttttg gaaattgcat 420
agcgtgcatc tgcagtgtta cctacat 447

<210> 56049
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E7

<400> 56049

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tgatccatgg ctgcagaaag cacctttcca gcaattgcca cctgatacac caagcctgtt 120
cctttcacat gaaatgccag gaaaattaca caatgacttg gtttttgggt ctccaaacaa 180
atcagcccgt gagcaccctt ttggaccgcc tggttatttg tggccaagg aggaactggc 240

gctgaatgga gctcaggacg gtggaggcgg gcatatcctg tcgccgtctg gtggcgcacg 300
 agttggcggc ggcgttggct tattttcttc agcaagtcca gatgtacagt cactgtggtc 360
 attccatgaa acattcaatg aaaaagagag catagaatga acaaactttt ataatagaag 420
 ggaa 424

<210> 56050
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E8

<400> 56050

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 aggggtgtaac tttagctcag ttttcgttcc agatacctag acctctgcgg caggactatg 180
 tcaaaaagaa accgaagttg ataaatgcaa gtgatgaagc aagtacaatt acctctaagt 240
 cttatgaacc agaagaagtg aaccctatag cctgggcagt tcctacaaaa catgaggggtg 300
 atgccagtga agaagcttct tttgccgatg agacacttgc atcagaagta gtgctaaccc 360
 ggaagaggaa aataggaagc tctttgtcag tagagccaaa ccac 405

<210> 56051
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E9

<400> 56051

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 tcagggttttg tgagcagcaa gcaaaggttt gttggacagt gaacagggtgt tcttttcgtg 180
 catctggtct gggagtgtgt ttagcttgtg atgaagaaca tgagtgtgtg tgttggtcgt 240
 ggtgcatctg gaggtgcgat gagcatgtga tgaaaaaaaa accaaacggc tctatggtga 300
 tgtatgcaaa aagttgcttt cgaacttgat ttctcaattc acagatgggt tgacagtttc 360

ttgaatt

367

<210> 56052
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F1

<400> 56052

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cccctgcgag cacctgcgcc accagaagtc catcatgaag tcgcagcgga acgcgctcct 120
catcgccgcc gcgctgctcc tctactggat cctcttctcc gtcacccagc tcgtcgtcag 180
gctcgagcag atgcagcagc gcgtcgacaa gctcaggaag cgcgacgact gatggatccg 240
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tgctcatgtt ttagatctcg gatcgtaatt tgagacctgc tggtagcatc tgcttccttt 360
gccttgccgt cttcagataa aaaagaacag cgctcttgga aacgatgata atgttttagga 420
tgtttgacg aatggtatct gtcgtaattg a 451

<210> 56053
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-F12

<400> 56053

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ggcaccatcg atttcccaga gtttctcaac cttatggctc gcaagatgaa ggacaccgac 120
tctgaggaag agctcaagga ggccttccgt gtgtttgaca aggaccagaa cggcttcatc 180
tcggccgacg agctccgcca tgtcatgaca aatcttggtg agaagctaac tgatgaagag 240
gtggacgaga tgatccgtga agctgatgtc gatggtgatg gccagatcaa ctacgaggag 300
tttgtcaaag tcatgatggc ccagtgaagc acagaacat aatctgaaag cagaaaagat 360
tatgcatngc atattaatca aaatgcaact ttttattcca tcgacttcta gtgaaacatt 420
ctgctagttg tagttgctga aaa 443

<210> 56054
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-D8

 <400> 56054

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 ttagtagtgt tagagctcga aggtgtcatt cgatgtatat ttgttcttgc tctaacaaat 120
 gccctaataa taataataaa aaaatcaaga taatgcatta gctaaaacaa tactaaatta 180
 aagagacatc tttttagtagac aaaataccta agatacacga ttatca 226

<210> 56055
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-C3

 <400> 56055

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 ccagcagcaa gtcgtcgtcg tctctgagct cggcgcagcg ggcagcagct gccgccctgc 120
 tcgtggcggt gtccgtcctg gtggtgggcg cggcggcggt gtgcgacatg agcaacgagc 180
 agttcatgtc gtgccagccc ggggcgcca agacgacgga cccgccggcc gcgccgtcgc 240
 aggcgtgctg cgacgcgctg gggggggcgg acctcaagtg cctgtgcggc tacaagaact 300
 cgccgtggat gggcgtctac aacatcgacc ccaagcgcgc catggagctt ccggccaagt 360
 gcggtctcgc caccgccggc gactgctagc agtgtgctag c 401

<210> 56056
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-C6

 <400> 56056

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aggacaagga gggcattccc ccagaccagc agcgtctgat ctttgctggc aagcagctgg 120
 aggatggtcg caccctcgcg gactacaaca tccagaagga gagtaccctt caccttgttc 180
 tccgcctcag gggtggtatg cagatctttg tgaagaccct gactggaaaa accataaccc 240
 tggaggttga gagctcggac accatcgaca atgtgaaggc gaagatccag gacaaggagg 300
 gcatcccccc ggaccagcag cgtctgatct tcgccggcaa acagctggag gatggccgca 360
 ccttagcaga ctacaacatc caaaaggaga gcacccttca ctttgtgtc cgtctccgtg 420
 gtggtcagta agtcatgggt cgttta 446

<210> 56057
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-005-Q1-K1-C7

<400> 56057

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 ggagtgacca tgtcggggcg cggaaagggc gggaaggggc tgggcaaggc cggcgcgaag 120
 cgtcaccgca aggtcctccg cgacaacatc cagggcatta cgaagccggc gatccggagg 180
 ctggcgagaa ggggcggcgt gaagcgcac tcgggggtca tctacgagga gacccgcggc 240
 gtgtcaaga tcttctcga gaatgtcatt cgcgacgtg tcacctacac ggagcacgcc 300
 cgccgtaaga ccgtcaccgn catggacgtc gtctacgcgc tcaagcggca gggccgcacc 360
 ctctacggat ttggcggctg angggtcagg ggtgtccgcc agctgctgct ggctcgtggca 420
 gaagtcttgg gtcgcgggtca 440

<210> 56058
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D10

<400> 56058

ccaacgcgtc cgaaaaaacg gaaccaaccc cacaatttct ccgccggttg aagaattgaa 60

ggaaacggtc cggccgctga acatcctaata caagcacgag ggttcccgcc gcaaggcctc 120
 ctggaaggac cctgacggcc gcatcatctc cgccaccacg cgcggcgacg ccgcagcgcg 180
 cctcctggac ctccgcaacc agattctctc eggccaggcc aacttcgccg acctcgccgc 240
 tcggcactcc gactgctcgt ccgcgcgacg cgggtggggac ttaggtacct ttgggaggaa 300
 gcagatgcag aaacccttcg aggacgccac atatgccctc aaagttgggtg agctcagcga 360
 catcgtggac actgacagtg gggttcacat catcctgcgg actgcctgag gaggggatca 420
 cactgtcctc tcaggctttc 440

<210> 56059
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D2

<400> 56059

cccacgcgtc cgaatttatg taggagaatt tttccaacat tcgttttggg cggagacatt 60
 gatctcaaaa cactcgtaac tgtcctacta ggtggtggca tgggtcccca aaacatggtc 120
 ataggggtgtg tctagtctgc ccttcgttgc agccgggcaa ttttccttac atatatgctt 180
 tgcttgattg tgatagcatt tttattatg 209

<210> 56060
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D3

<400> 56060

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 ggaagcggtta tgagtgggtc gggcatcttt aagctgttgc aagcattggt gccaacagta 120
 tcccagatga cgaacaacgt gaatgcgaga ataaagctgt tatactaact ggggccatcg 180
 atcttgcaga gacagatttt gtagacaaag aataatgtgc tatggttatc gtttagttct 240
 tgatcatgtt tcttttacct acttgccgtt aaaaaaagat gtcattaatg gctggtgaaa 300
 agcaaattta ctgttc 316

56061 56062 56063

<210> 56061
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-D4

<400> 56061

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ggaatggccg ctcgctctct ctgctcccag ccgcagctgg tcgcggcggc ggcggtcctg 120
gcagcggcgc tgctgctgct ggcggcgggg gccgggacgg cgtcggcggc ggtgagctgc 180
ggcgaggtga cgtcgtcggg ggcggcgtgc ctcggttacg cgatgggcag cgcggcgtcg 240
ccctccgcgg cgtgctgcag cgggggtgcgc tcgctcaaca gccgcgcgctc gtengcggcg 300
gaccggcagg ccacctgcaa ctgcctcaag agcatgacgg gccgggtcgg cggcggcgctc 360
agcat 365

<210> 56062
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D5

<400> 56062

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ggaagatggg gcagaagggg gaagacagcc cttcacagaa ggctgctgaa gcatgaaagg 120
ttctgccgtg aagtatattg tgctgatacg tttctcagtc catgactccc cgtcgcatat 180
tgccaaagat aaatgcttct gtttgtgagg cgagggattg tgtgtaatgt tcacgaactg 240
tggtagtgcg gcatgtgact caactgtttt aaagatggtg atgaccaatt tcaaataaat 300
ttgctgccat cgtagaatta gaagtactat gtggatttac aggaaaaaat tatctaata 359

<210> 56063
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D7

<400> 56063

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tgacgaacaa cgtgaatgcg agaataaggc tgctgcacta gtcggggcca tcgatcttgc 180

agagtcagct tttgtagaca aagaatagtg tgctatggtt atcgtttagt tcttgttcat 240

gtttctttta cccactttcc gttaaaaaaa gatgtcatta gtgggtggag aaaagcatta 300

agactgttct ctagagaacc gaagaaatat ggaaattgag gttatggctt 350

<210> 56064

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-A2

<400> 56064

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atcaaggcag aacaagattc ggatggctcg gcacaaagca cagctgatat gacggctttt 120

gtgcaaaacc ttcttatgca gatgcaaacc aggttccaag ctatgtcgga gaacatcatt 180

tcaaagatag atgaaatggg tgcgagaatt gatgaattgg aacagagcct caatgacctc 240

aaggctgaga tagggcgtga aggcattgctg acgccatcta agatgaagga agagtcaaga 300

ccttcggaca gtcccgatg agtgcagcag aagcagcatg actcgtttca gagggcgttg 360

ctgtgtcttg cgtttattac taacaaatac tctnctgttc ttttttattt gttgcgtttt 420

agttcaaaaa tgaactagcg agcgacaaat atttga 456

<210> 56065

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A3

<400> 56065

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gctgccggac gaggaggctg acagcagcgt agctgtgctg ctgcgtggca tggcgtgctc 120
 cgtccccggg tgaacttccc ccagcgtgtg gcacgggtgg gggcaaccgt tgcgggcccc 180
 cctgtaagtg tcaggccggc tcgccgccgt ggctcggtag cctaggactt ctccatgtct 240
 tgctctgctc cggagtaaga taccgcggat tttaataatg aatcatggca tcaaataaaa 300
 agctgtactc gccggagcga tctgtgtc 328

<210> 56066
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A6

<400> 56066

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 ccttacttac tcttgccctgc aacattccta cttttttttt tagtcgctcc cttaaatttac 180
 attcacatgg ccgtttcttat ccaactttat cactgtgaaa accctctcat tccccatgtt 240
 attctccctg atatacctcc ccctttctcc agttgtctca ataacgtcaa ggcc 294

<210> 56067
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A8

<400> 56067

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 agtctccgcg gcgaagatgt cggggcgcgg caaggcgagg aagggcctgg gcaaggcgcg 120
 agcgaagcgc caccggaagg tgctccgcca caacatccag gggatcacga agccggcgat 180
 ccggcggtcg gcgcgcaggg gggcggtgaa gcgcatctcc gggctcatct acgaggagac 240
 ccgcggcgct ctcaagatct tcttgagaaa cgtgatccgc gacgccgtca cctacaccga 300
 gcacgcgcgc cgcaagaccg tcacagccat ggacgtcgtc tacgcactca agcgccaggg 360
 ccgcaccctc ta 372

<210> 56068
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-B1

 <400> 56068

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 tctaacaaga atggggaatg tgcagctttt acagctttac ttaatcgttt tgttcttgct 120
 agttgaaatg tggaatggat tatgaatc 148

<210> 56069
 <211> 53
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-B3

 <400> 56069

 aaaaaaata actcataatt taatactaca ttataaatca acaactaaaa taa 53

<210> 56070
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-005-Q1-K1-B7

 <400> 56070

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 acgtcgttct ggaacgagct gggtatcgtg ttgcacgccg gcgcagggtgc aagtcccgcg 120
 ttggcatcca gcacaggggtg accaaagaag acgccatgaa gtgggtccag gtgaagtacg 180
 aggggtgcat cctcaacaag gcccaaaaaca cctcgtaatc attgatagtc atcaaacgac 240
 ttgcccttta gcaactccagt tcaagtataa tctgtgtact atgaatactg tgtttggttg 300
 ataccaaatg cactgccagt tttgcgtctg tgcccataat ttcactctga tcagactagc 360
 agttatgaac aaattactgt tttgatagtg ttaaagtgag ctcgccagca aaatctgagg 420
 aacatt 426

<210> 56071
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C1

<400> 56071

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tcattcttcac ttcattctat ttgggttgaa gttttaggcg acccactcct aagaagggtta 120
cttctcaggt tcattctctg ccgagcaact cattccctgt tcaaaccaac aaaccataag 180
acagagttcc tgccgacctg catgcctcct ttgcctgagt ctgttgatgc agagagcatg 240
ctctcccaaa gctgtgtgct gcgagtcgca tcattctttg gcgctgccag tcagttctca 300
tttgctgagg ttaccacatg gctgatgtt gaccctgagg aggctgttgt caccagttct 360
tctggcagtg ccaacaaagg tgtgcctgag acagccagag attcagacat ttcaaactca 420
tcattcatctt tttgatgc 438

<210> 56072
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G6

<400> 56072

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tgtcgcagtc tgctttgcat tgtatgttaa gatacttcag gtctcagttt tgattgatca 120
ggttctgccc cgtcgaaaaa aatactagct gctgctgctt tacagggttt tgtctcagcg 180
tattggtggt tgactattct cagctacttg agcatggggg ccatgattct ttgatcatct 240
tgcatgtaac tagctgattg gtgttccaat gatgttgat ttgcagaacg attttttcct 300
tgtaaatcac caacaaccac cacactaggc tttttctgta ccatcatgga cgggccacaa 360
gaatttacia ttcaaagctt tggcacttgc catatttgat gtcgctc 406

<210> 56073
<211> 488
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-G9
 <400> 56075
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 aataaaacaa aaaaaaaaaat aaa 83

<210> 56076
 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-H1

<400> 56076
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 tgtctgggca tgaagaactc catcccgaag cggcagggcg gcaagaagaa ggcccccaag 120
 gcgaagacga actagggctg cttagatagc tgcacgcctc aggtgggggtg tatcaggaga 180
 caggtctatt tcgaagcagg ctacgcgcga tgcagcgaat gccatcgagc tgcgctttta 240
 catgtttatc atcagattcc attttgcggc ccgaacaaag gtgtgaccgg nggtgggtag 300
 gcgactagat tgcacgatta tgtacttgag atttgtttgt tgaactgggt tgccgacggt 360
 taaatctctc catttgattt 380

<210> 56077
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-H12

<400> 56077
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 gcagcaggcg cgaggcggga ccgggacagc ggcggcgtcc gcgtcgacgc tggggcggac 120
 gctggaggcc atcggcgagc ccgagagccc cagccagagc caggtgtcgt cctctgcctc 180
 cttcggggcg aaggtggcgc ggtcgcgctc cgtgggctgc ggcagccgca gcttctccgg 240

ggacttccta gagcgctctt acaacggctt cggcgactgc acgctccggc gcgtcgagtc 300
ccaccgcgag cccaagcccc acaggatgcg cggcggctgc tgctgcggaa gcctgggcaa 360
cctncacgga gctggcgag acgacgctga cgacgaggac gaggacgac 409

<210> 56078
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H2

<400> 56078

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gtcacacggc gagtttatga ttatgtatca cctcctggtg tataattcct ttgcttctca 120
gatggatcta acttgctgcg acaagaacga gcgtgcccat actcatacta ctatataacc 180
gaatacagca acatatgata agtcatctgt aacaagacaa tctactattg tccaaatctg 240
acgaggatac tactgcatat tggaaattgg ctaacgagct ggttgataaa tggagtcgac 300
caatattcaa caagagcacg agatttgagg acatgaagag atatgatgat gaaagagcac 360
cttacaggcg gtcacaaatg aagaaacctt catcgagtag ctc 403

<210> 56079
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H4

<400> 56079

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gaatgtgatc accacgatat cgcactcgg gtaaataatt accttggacc agtacatgac 120
gaacgcatgc aatacataaa tattcaagct gctgaccgga aattattaac tgacactcca 180
actgacttgc aacagaatga tcgaatacat catctgatca aaagtgtctt attaaatgtc 240
aatatggtat cgtccaaata tcaccatgag actactgaca ataggaaatt gagctaaaga 300
gctgcttgat aaatggaatc gaccaatatt gaacacgagc acgagattag ctgacatgaa 360
tagatatgat gattaaagag cacattacat gatgacacaa at 402

<210> 56080
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H6

<400> 56080

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 tctgctgtac tgaaattatt aactgatttt ccaattgact tggaacagta tgaccgaaga 180
 gagcagctta agaaaagtgg tctgggaaag gtcattatgt ttttgtccaa atctgacgag 240
 gagactactg caaataggaa attggctaag gagctggttg ataaatggag tcgaccaata 300
 ttcaacaaga gcacgagatt tgaggacatg aagagatatg atgatgaaag agcaccttac 360
 aggcggtcac aaatgaagaa accttcacg agtagctctg gaatggaatc cagagatgat 420
 gatcttgatg ctgacttttc acaacgcaag 450

<210> 56081
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H7

<400> 56081

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 tgggtcaagga aaattccata gcctgttggt caaacatata atcgaacatt ctagtacgcc 120
 tcttaactat gtctcaccaa attactgtga atcagttcag ttacgacacc gatatccgaa 180
 gagagcagct taagaaaagt ggtctgggaa aggtcattat gtttttgtca caaatctgac 240
 gaggagacta ctgcaaataag gaaattggct aaggagctgg ttgaataatg gagtcgacca 300
 atattcaaca agagcacgag atttgaggac atgataagat atgatgatga aagagcacct 360
 tacatgctgt cacaaatg 378

<210> 56082
 <211> 228
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H8

<400> 56082

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ggcgtgtagg ttttagttga gctgtcaggt tggagtgacc cttctcctgt gtaacgcttg 120
cctggtactg cttcagttat ttggacactg tttgtgttga gttgttaact tcaaggggtgc 180
aaacctggat aattattttag ttattatatg actatctggt atccggtt 228

<210> 56083

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A10

<400> 56083

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tggagttgag ctggcactcg aattctttca tgcattgtga gcgcaggatc tgatttgagt 120
gggtctcccg gtgagttcgc gagcagcaag ttttgcaacc tgtaattgcc tgtacatcaa 180
cacaacacaa ttttgtccct aaccgcaact ggtggagagt agcaaggagc gat ttggcgt 240
gaatgaacca aaatgatccc agtgtagatg acatactata actgtgctat ctttgcttgg 300
ttgacgcttg ggccaagtct tcgccacatt tgtttaactg gccatcacct gtttcttggc 360
accaagccgg cactcgcaca gatctttaat aaaagcttgg ttagatatgg ctccc 415

<210> 56084

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F3

<400> 56084

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tgcgtcggcg ccagcagacc catgcatcaa ccagcatgga ctgcggatcg atgggtgctg 120
ttacccccgt caggctttat tctaagttaa atcctaagga aaaaaatggg gcttcttggg 180

gctgc

185

<210> 56085

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F4

<400> 56085

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gagttcattg acgctgttgc tgacgagctc agatcaaggc tggcggccaa ctcgaacctt 120

tgaaatcctt gccgaagttg tgggtgctttc ctgcgcgacg ctttcgaacc gtttttatta 180

tgtcgccatt ttctttccct gtgccaccac cctgaatgaa gaaggcctga gctaggcgaa 240

catctgcagg ccgcagcagt atgccaaatc attatcatta ccgttgccat taccaattgg 300

agattgccgt agatttcgc gattatggga actcatttac ctgattatct gatacgtttg 360

aaataaaaag gtcggcattc agaatg 386

<210> 56086

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-F5

<400> 56086

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gttgactcct tgaaggtgaa gctcacagct gaggacctga aggaaattgg cagccagata 180

cgtgcagaag atgtggctgg tggaagacaa tacaattcct atgcacatac ctcttggaag 240

tatgcagata caccaaaaaa gtgaagctct ggaaaccttg tagcaatcac aggcgtatgc 300

aatgttgaa ctatttccct gcatttgagc cggaatcgta cgatgatgca tcttgtgaac 360

atgcggcact aataaatcga gacgaagaat aatgtanttt ccatc 405

<210> 56087

<211> 270

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-F6
 <400> 56087

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 acctccattc caacgctgac tccttgaatg ttaatctcac acgtgacgac ctcaaacaaa 180
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 atacctaacg atattatgcc catacaccaa 270

<210> 56088
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-F7
 <400> 56088

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 agccatctcg cttcgcttac aggattagtc tcacagatca tcactatcca aacagaactg 120
 agagcgatta gcatttagtc aaactgtaca aatgggtttca gagataccct gtttgggata 180
 gaagactctg atgtattgca aacgatcttg aacgatcgat ataatgggct ctaatatgtc 240
 atatgtgaca gaatcatggg cttcataga tgtgaaacgc ccattcaatg gaactgtttc 300
 tatcagaggc agaattattg ctgggacatg ccacaatgct aagatgaaca gaactatcat 360
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<210> 56089
 <211> 487
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-F8
 <400> 56089

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 cggttagtgc acctcaatct gttccaaata atcactttga agaaaggcgt cactatgaag 120

aacaaaggaa gccatattat cattttgaag aaaggcttcc tctgttgccct attgaagaag 180
 tgcgtcagcc acggtttgat gatgaaaggc gccctgcagt tagacatgtt cctcttgagg 240
 atccatatag ggcacaagca ccacgctttg caccagttcc tgttgagtct cagcttggcc 300
 attcgttggc tagtgctcag ggtgatcacg gcagatatta tcaaccacca gcacttgccg 360
 ctgagcctcg acacattcct cttgttctag agcctcgcta tgttccgtca gcccatgtgc 420
 ctactgtgcc agagcttcaa catgtcccag ctgcatatta tcgcacttcg gctccatctg 480
 gcgactc 487

<210> 56090
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F9

<400> 56090

gattagtata tccaaagcca attctaaggt taaatttaaa ggtcctactg gtattaccgg 60
 ggaccggggtc cttttggttc caccgggcct tgcctttttc agacttggtcc tatttttttaa 120
 ggaggcattc ccaaagttta aactaacata caagggtggc cgccaacttc ctaaaaaata 180
 cagcatgggtc ctaattccgt ggaaccttcc aaggaaa 217

<210> 56091
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G1

<400> 56091

cccacgcgtc cgcccacgcg tccgatccat taaatttata ttgattgata tttttatagt 60
 ggtat 65

<210> 56092
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E7

<400> 56092

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gggagctcgc tgagccctgc ctccacctcg ccggggctct ccctccacct caccgagtcg 120

tcgtccttta cagcagaagg aatggaggga acagaggag gatttcaaga aaaaggttag 180

gcgcacgtg cggaatcac aggaatggt ctgaaggaaa tgggagtgt ggtgaagtta 240

accatgccat gtcaggctgc aggatcttgc tgccaacctc aaaagtgtc atctgacacc 300

agcgtcttgt gtatcttcca ttatcgtct gttcattggt gacaattgcc tccagaaatg 360

cattgggacg tggtcggctt ggaaggttct gtttgtgtcg 400

<210> 56093

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-G2

<400> 56093

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gtgcttgcgt atgagacctc ttaacaaccc ctctgtcaga ttggccctcg acgggatggg 120

atgggactac ggcctacggg agaggttgta aagtacactg cttaggagca ttggccagtt 180

tatgctgcct aatgtgttac tatgcttggt actgtgcaca ctagaaatgc tagggataca 240

ggtagctacg gacatgcctt gtaatctaca tttcctctc ttcgaatggg aaatgaaagt 300

gattatggtt aggtaaaaag gagcaagtat aatgctccaa attaaaaaan aaaaanatat 360

tatatt 366

<210> 56094

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D4

<400> 56094

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tgtggccatg gacgccagcg gagccggtag caaggggaag aaggggtgcg cccgggcgcaa 120
ggcaggcggc cccaggaaga agtcggtgac gcggtccgtc aaggccgggc tgcagttccc 180
cgtcggccgg atcgggcgct acctgaagaa gggccggtac gcgcagcgcg tgggcactgg 240
cgccccgtc tacctcgccg ccgtcctgga gtacctcgcc gccgagggtc tggagttggc 300
agggaaacgcg gcgaaagaca acatgaagac gcgcatcatc ccgcgccacg tgc 353

<210> 56095
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D5

<400> 56095

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ccaatattca aattggttgg cacacatggg aagtgtggca gtcaaccaac agtcaaatac 120
tgttggtaat aatggtgccc cgtcatcatc tgaagtgcgc tcccatatat ctaaattagc 180
ttccatcgac tcctttgact caaaatggca agaattcctg gaccccggcg agtctgtagt 240
cttaatatca aagctgaaga agattaataa gctatcaaac aagaagatcc agttgatcct 300
cactgacaaa cctcaattga tctgtgttga cccttcaaaa atggtggcca atggaaacat 360
tatttggtct gatgactcaa gtgaactcag tgtgcacgta tcagattctt cacattatag 420
aatatgcacg ccaaagaagg tgttaacatt tga 453

<210> 56096
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D6

<400> 56096

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cggctcttgg agcgcaccaa caccaccgag agaccggagc gactcgccac cggcgcgga 120
aaggagggcg gaggctcgat ggcggatgag aatcaggctg gaaagaaaga ggaggaggaa 180
tttagcacag gccctctgtc agtcctaag atgagtgtta agaacaacac ccaggtcctc 240

atcaattgtc gcaacaacaa gaagctgctt ggccgtgttc gtgcttttga tcgccactgt 300
aacatggtgc tcgagaacgt gcgtgagatg tggacagaga tccccaagac tggcaagggc 360
aaaaagaatg ctctgcctgt gaacaatgat agattcatca agtagatgtt cctcaagggc 420
gactcgggtca tcatagtgtt ga 442

<210> 56097
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-004-Q1-K1-D8

<400> 56097

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aggccgagaa gaagcccgcg gcgaagaagc cgggtggagga ggagcccgcg gccgagaaga 120
cgaccgccgg gaagaagccc aaggcggaga agcgggtccc cgctggcaag tccgccggca 180
aggagggcgg cgagggcaag cgtggcaaga agaagggcaa gaagagcgtg gagacgtaca 240
agatctacat cttcaagggtg ctgaagcagg tgcacccgga catcggcatc tcctccaagg 300
ccatgtccat catgaactcc ttcataacg acatcttcga gaagctggcc ggcgaggccg 360
ncaagctcgc gcgctacaac aagaagccca ccatcacctt ccgcgagatc cagaccttcg 420
tgcgctcgt gctccccggc gagctcgcca agcacgcgt c 461

<210> 56098
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D9

<400> 56098

tgcccttcac ggaagatggt tcgctgggaa gatgatttca gcgacattta tgtccgctcg 60
ggagtggagt acgaagttcc gaaacttgtg agcatatgcc ggggaagagt ggccagacct 120
gcatagttcg tttggagtat tctcaagtgc tgtatcgttg gatggtagac gaacacctta 180
ttgattgtat gacaggatag ttgcagcacc gggcgctcact atcagtacaa tgcttgatgt 240
actttattta ctgcgtcgca gtgaccaaac cttatttttg tccaccgaat gaaatgccct 300

atcatctcca aaaaacaaaa aagtattatc ccaacaatat gcaatgtaaa tttaaaaaaa 360
 aaagggcggc 370

<210> 56099
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E1

<400> 56099

gcatcgcgca ttatcgatgc caacgctgtg tgaagtgaga aagggtctaat tctagaccca 60
 agacttttgt ctaacggatc atgtctttgt aactgaatca tttgatgcaa caggcagcag 120
 ctgccgacac tgctcgtggc ggtgtacgtc ctggtggtgg gcgcagcagc agtgtgcgac 180
 atgagcaacg agcagttcat gtcgtgccag cccgcggcgg ccaagacgac ggacccgacg 240
 gccgcgccgt cgcaagcatg ctgcgacgct ctggcggtgg cggacctcaa gtgcctgtgc 300
 ggctacaaga actcgccgtg gatgggcgtc tacaacatct accccaagcg cg 352

<210> 56100
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E12

<400> 56100

gataatttat ggagtgcag acgaagcgaa ggacaaagct tttgagttgg agttgagctg 60
 gatctgggat gaatcgaacc gtcagcatca gaaggttcca aatgaactgt tggagcaggc 120
 caaagctgct gctcaggcag ctcttgagga gatggatgct gactaagaaa caggacgatt 180
 tgcccagact tgggtgtttt ggtgctgttg aaatctccga tccctttggg gtgaccact 240
 ggacatggcc aatttgtcac aatttattat tttgacccat gtcatgtgaa actcctttcg 300
 ttgaagtctg gtatctagat tgacttgtat caaagcttgg gtttacgcag actggattct 360
 ggagtactgg actgggtgtg gtgttttcgg 390

<210> 56101
 <211> 447

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-E2

 <400> 56101

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 gagggcatgg acgtcgtcaa ggccatcgag aaggtgggca cccgcaacgg ctccacctcc 120
 aaggtggtca aggtcgtgta ctgcggacag ctctcctaga tctctctgat ctggtctggt 180
 cggccgccct ccctccgtca tcgtcgactc cccctgcgtc cgttcctttg gatctgaata 240
 agatggtggt gatctgagtg gtggtcttag tttatcatgt atcgctcgca gtttaattta 300
 gcggttttagg tgtggatctg tgaaccccat ggcgctctg cttgattcgt gtttcacctt 360
 gtatgttctg agattcatga taatgctatg agaacttgaa attcccgta aaaaaaaaaa 420
 aaaaaaaaaa aataatataa tatattt 447

<210> 56102
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-004-Q1-K1-E3

 <400> 56102

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 tgaccgtgga tttaacatat cttgtgttgg aattattgtt tatcgtggcc tgtatttcgg 120
 actttacgat tctatcaagc cagttgtcct cactggcagc ctccaggaca acttctttgc 180
 cagttttgct ctgggttggc tgatcaccaa cggtgctggt cttgcatctt accccattga 240
 tactgtccgc agaaggatga tgatgacttc tggtagggct gtcaagtaca agagctcctt 300
 ggacgcattc cagcagatcc ttaagaagga aagccccaag tccctgttca aggggtgctgg 360
 tgctaacatt ctctgtgcca ttgctggcgc ttgtgtgct 399

<210> 56103
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E4

<400> 56103

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 ggaaagggttg cagatttttg actgacaaaa ctttcagaaa ttggaactac atcacagtca 120
 ctcccatcac tacgagttgt tggtagattt ggtagatgc ctccagagta tgctcgatat 180
 ggtgagggttt ctccaaaggt ggatgtctac gcttttggtg tagtcctgta tgaacttctt 240
 tctgccaaag aagctattgt gagatcaaca gaattcactg atgcacaagg cctgggtttat 300
 ctgtttgagg agactctcag catgccaaac cccatggaag ctcttttagga aatgattgat 360
 ccaaagctag gaggtgacta cccattgac 390

<210> 56104

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E6

<400> 56104

aataaccgga ccgaccgacg cgtccgacga cgccatctcc aacgtctacg tcaacatctt 60
 ggaacaccca aaacttacta gggtcagggc tcctttatca caccatcacc atacttacaa 120
 cactgctaata ctccaccttc aaagtaaaac acgtcgctaa ctgcacacag gtctacaata 180
 tctctaaaaa cacatatgat cagaaaatct ccatacgtca tcttccactc ctaatgatta 240
 ccagtcctaa catcacccaa aaactcataa atatctcgat tcaacatcat actttattac 300
 ctattacatg cctcatgaat ttaactgttt acatgatcat cagaaacct 349

<210> 56105

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-D12

<400> 56105

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 gacgctgac caggggctgg cggacctgga ggcggcggtg tgcctctgca ccgtcctcag 120

ggccaacgtc ctgggcatca acctcaacct gcccatcaac ctcagcctcc tcgtcaacta 180
 ctgcggcagg cgcgtccctt cgggcttcca gtgcttctga tcacgcccac cgatccatct 240
 gcaggctaaa taatttgtcc aagctagtat atatacgta gtacgttgat atatatgatg 300
 tagtattata tatatgtcca tgcattgcaat gcatctcgta gtccatcgca tgttgntgtc 360
 gttggtgtgt gtgttttcga tgatcctgtc tctgttataa atatcattat tattac 416

<210> 56106
 <211> 202
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B4

<400> 56106

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaatt aaataataaa aaaaaaaaaac 60
 aagggatata gaaatatcca aacttaagaa cacaacata cggcctgact attttgatgt 120
 tccatcctct tcaacccaat ctttcgacct tatagctcca atttcgtgac tcgtaaatcc 180
 atttcattac ccattttttt ac 202

<210> 56107
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-B5

<400> 56107

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 gcagcaaata gagttctcgc tgtacaaagt tcgcctcagg aagcaagagc tactcgacca 180
 gcagctgctc gagatccacc aaaggagat gcatatgcca gcagagcagg gcggctacct 240
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 ggtgggaatt aaccggaggc cgttcccgtg gtgggacgtg ggagccagtg gcagtggcag 360
 tggcagccag agccagcagc agctgctgca cggccgggac gccgcggagt cgtcgatgac 420

ggcgctcggg ctgtcgnccg aactgcatgg gt

452

<210> 56108
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-004-Q1-K1-B7

<400> 56108

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ggtccagggg atctgatctg gcagattgtg aggaagaaca actccttcct ggtgaagcag 120
tttggcaacg gcaatgccaa ggtgcagttc accaaggagc ccaacaacct ctacaattta 180
cactcctaca agtactctgg cttagcaaac aagaaaactg taacgatcca gccagctgct 240
ggaaaggact cggctgtggt cctctctact accaagacca agaagcagaa cacacccgcg 300
aagctcagcc acaagtctgt gatgcgcaag gagttccgca agatggccaa ggctgtgaaa 360
aaccaggttg gcgacaacta ttacaggcct gatctgacca agtcggccct tggtaggctg 420
agctctgtgt accgcagcct ncaggttgcc aagtctggtg tc 462

<210> 56109
<211> 484
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-004-Q1-K1-B8

<400> 56109

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gaggtgccc agctggccgc cgtcgagacc ccgaacgagg agaccgctgc tccggcgggc 120
gagaccgagg tcgtcgccgc taaggagccg gtgtcggccg aggccgagac tgagtccaag 180
gaggtcgagg tcgaggccga ggccgtagct gaggtgagc cgaccgaggc agagcccaag 240
gaagcagagc ccgaggccgc cgcgccggca gcagagacgg aggctgctgc tgccccggtc 300
gaggtgctg agccggagat agccgccgag accaaggagg cggcggtgt ggaggctaac 360
gaggaggagg gggaggcatc gcctgcggtt gctgccactc ctgaggctgc agcgaccgan 420

gaggaagcgg ccgtccctgc ttccgaggcc gncgtcgctg ccgtcgagaa gtccgtcgag 480
tgag 484

<210> 56110
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B9

<400> 56110

accactcgt cctaaaaaaaa aatacaatca ctaactaatt aaattaaaaa aaaaaaaaaat 60
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tataaaataa accaaaaata accttactta acaaaacact ataaaaaaaaa tccctccttt 180
taaaacttcc atacttaatt cctattcttt ccaaactttc cctctttatt ttattcccc 240
aatttaaaat tatttaccct tattttaaaa atgctactcc tttaaaacct tttccttccc 300
caaattaata ccctttttaa caaacccctt ttaccactt tcctttatta taaaaattcc 360
ccctcctaac ccctttttaa a 381

<210> 56111
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C1

<400> 56111

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ttagtaagca gtggtgaagg atacaggcat acgggactg gggcatatac catacttttg 120
gactagacgg gctagagact gattttggag tccgttatgt ttccattttc cgttctcttg 180
gttttctctg tcgtcaatgt attataatca tgatgatgaa tggatggaga aatgagatga 240
gatttttttg 250

<210> 56112
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C12

<400> 56112

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gcctatgggtg catgattcta tccagcagtc tacgggttcgc tcgcctgggt tcgcgatgga 120
caagggcagtg gtctacttgc cctctctccg tgtctgcgac tgcgcgaaga atgccaatcg 180
ctctgagatc aagaagtggc acgccgtctc tctctggggc tgggacatcg tgggtggacaa 240
ctgcgccatc tgccgtaacc acatcatgga cctctgcacg gagtgccaag cgaaccaggc 300
tagcgccacc agccaggagt gccccgtctc ttggggaatt tgcaaccatg cattccactt 360
tactgtatc aaccgttggc ttaagaccgc tcaagtgtgc cctcttgaca acagggaatg 420
gcgagttcaa gaatatgggc actagagaga at 452

<210> 56113

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C4

<400> 56113

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ttcaaacttc aaaactttta tcctaagtta ctaaccatat gcactgttta tgtcatttac 120
agggaaaagc gcaaggtttt attgcaaccg tgcagtctgt agctatattg ttggcaccac 180
tatttatgag tccactgacc tcttacttca ttccagagga aacgcccttc gactgcaaag 240
gtttcagctt tattgtggcg agtttcttct tggcaatctc gttctgcctc gcttggatgc 300
ttaaccacag aatgaaggac aagggcacaa aagctgtcgt ttccagacagc gc 352

<210> 56114

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C5

<400> 56114

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atgggaataa atacaaa

77

<210> 56115

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C8

<400> 56115

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tactgaaggt ttggttgcca aggacaagtt tcatgtaagt tacagaggtg gaaaactaaa 180

cagctcctta tctcagggcg tgaccaattg cctgcgttat tacctccgaa ggcctgagac 240

agatgaagac agctattgat tgttgtgttt gtcgaacctt cctatagtgc attagaatca 300

gaaactttgg cttcagttcc ttcgctatgg gcccttgta ctgctgcaaa tggagttttc 360

cattgtagct gataaagtgc cgacaaggtg catccatagtg tgcataggtg gcactgaatc 420

ggggctcact ggaccagttt gatattgtag taatatatat acagctggga gcaacat 477

<210> 56116

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D1

<400> 56116

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ggcttcggct cggttcgtgg tggcgacatt gctctgcggc ctccatttgc ggcggttct 120

gctgtagtgg tgatggagag ggtagaggaa acccactcgt acgtagtagc actgtactgt 180

accttacctt acattgtagc agtgtctgta gatgattact atcaattgat gatgttgagt 240

tagtcgcagg att 253

<210> 56117

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D11

<400> 56117

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tcaaccacag tataaaatgg tctctctcta caattatcat acaatgcttt caccaccttt 120
tattgaatca tcttataata ttgtaatcat tacatacgat tattcttata tcactacaac 180
ttaattctta tcccctatga cgacttatcc tacc 214

<210> 56118

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-H9

<400> 56118

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ggccaagaac gtttccgcac gattactact gcttactaca ggggagcaat gggcatcttg 120
cttgtgtacg atgtcacaga cgagtcattt ttcaataaca taagaaattg gatcagaaac 180
attgagcaac atgcttcgga taacgtgaac aaaattcttg tggggaataa agctgatatg 240
gatgaaagca aacgggctgt gccacttcg aaggggcaag ctctcgctga cgaatacggg 300
ataaagtttt ttgaaacgag t 321

<210> 56119

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A2

<400> 56119

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caggtagagc aagccaggat aatgtacctc cgagtgggtg tgatgatgca aaagcaacag 120
gatccagtgg accagacaat gaagtacca aggggtgatgc aaaaaccata gggaagaata 180
ccctttttgc accacgagct ctgggttaaac ctcttggtg gacaaacaag gatgagaaga 240
aaccagatgt tgcaaggag ttgaaatcaa atgatgagtt ccgaaatctg ttactaaaga 300

agtgatatca gttggcaggt gtggatcttc atgccccatt caatgccaaag atttgtgggc 360
cttcatctct atgtt 375

<210> 56120
<211> 181
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A3

<400> 56120

aaaaaaaaa aattataaaa tataaaacat tttaaaaaat aaaaaaaat aaaaatataa 60
atagaatatt tataaatata aaacaatcca taatttataa aaaaaaacat aaaaaactca 120
aaaaaattaa tttatcaaaa cttattataa attctcttcc cttttttaat aaccaatttt 180
t 181

<210> 56121
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-004-Q1-K1-A4

<400> 56121

cccacgcgtc cgccccacgcg tccgccccacg cgctcgtgca gtcgccacgc cgaagcagat 60
cagggagctg atgaaggtgg acggggtcac caacgacgag gtcaagagcc acctgcagaa 120
atacaggctg cacacgcggc gcgcgtcgtc ggacggcggc gaccagcacg cgggcgggct 180
gtggtcgtcg gcgcgggac agcagtacac gacgtcgag cacagcacgt cgcagtcgca 240
gtcgcagtcc ggggtcgccgc agggggccgct gcagctggcg gtgtcgagca gggccatgtc 300
ggccaccgnc ggggacagct gcgacgccgg cgacgaggcc ccaggcggcc ggtcggagag 360
ctacggctgg gagatgccgc aacacgggac g 391

<210> 56122
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A5

<400> 56122

cccacgcgtc cggacaactc cctaccgtcc gagaccccaa gcaccagcgc ggcggcggcg 60

gcggcggcga ccatggctgt cggaagaac aagaggatct ccaagggaaa gaagggtggc 120

aagaaaaaga ccgtcgaccc tttctctaag aaggattggt atgacatcaa ggcaccgtcg 180

gtgttcagtg tgcgcaacat cggaagact ctcgatatcca ggacacaggg taccaggatt 240

gcttctgagg gtctgaagca cagagtcttt gaagtttgcc tagctgatct tcagggtgac 300

gaggatcaag cttacaggaa aatcaggctc cgtgctgaag atgtgcaggg caagaatgtg 360

ctcaciaact tttgggggat gaaatttacc actgataaat tgagaaccct agtgaagaag 420

ggcagacctt aatcgaagcc catgtgatgt caagacaacc gccactac 468

<210> 56123

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-B1

<400> 56123

gttggatcca gtgacgaggt cgagtacagc ccgttccttg tgcccaagca cggcttgcct 60

gtcagattat ggagacaaaa caatccggtc gtcgacagaa aggggcgtga gaccgacgac 120

gatgatgtgg aggatatttt agtttgactc ttgagttagg catgaattta accccaagct 180

agctagagaa gttttttttc cctttgaaat tcttctttgc tcgccttctc cctggatcaa 240

attacgttgg aggacaagaa acggcagctt tctctttcgt tttctttgcc tgcttcaccg 300

cgacgataat ggtgaaaata tgtaagctac gtggacatca atgatccaca gcatncgtga 360

tatatataat atagagagaa aattctctgc a 391

<210> 56124

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-B10

<400> 56124

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 cgcggtgtcg tggacgctct acggggtcct gacctctcag ttcggcgacc tggaccagcc 120
 cctgcttatg gccgacggcg tcacctccac caccgtggtg gctttcctgg aggagcactt 180
 cgggttccgc cactgacttc tcggcgccgt cgcggaatg gtggccggct tctgcgtcct 240
 cttegccgtc gtcttcgccc tggccatcaa gtacctcaac ttccagcggc gatgagagag 300
 caatgcaagt gggttcagcta gctagtatag tagccaccgt cgacagaccc accaaacgga 360
 tcgcagccta ctgtacatgc atacaccgat cgatcagtgc angatggcag cagcgcaatg 420
 aattatgaat gcgatgtacc agcgcgtcgt atgggcacag tta 463

<210> 56125
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-B2
 <400> 56125

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 agattgagag gaggaagcaa gcagaagaag cacttgagat atggcagaaa gaatggaaga 120
 agctgagtca ccacctatca catgttgctt tgtcacttcc atctccaagt atagctgagg 180
 atactgatga ttcaagcatc gatcctggag ctgagttgtg ccagcaaata actgtttcac 240
 aacttgtagc cgctgctatt tcccaggatt ttgctcgtgc tgaagttgaa tcagagatgg 300
 aaaccgtgat tgccgcanag aacttcgaga ttgcaaggct gtcngatagg gtccagtact 360
 atgaagctgc aaacagggaa atg 383

<210> 56126
 <211> 239
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-H5
 <400> 56126

ccgaatcnca attccgaccc agccgacgag tccgaggacg ctatggccaa gacgcgtatc 60

ttagttcgtc	tcgtgtttgt	tgttgccag	ggggggtttt	gattgaaggt	cgctctctcc	120
canttcta	tgctgtgtta	atcctcggtt	ccagcagacc	catgcttaaa	ccagcttgga	180
ctgcggatcg	atgggtgctg	ttacccccgt	caggctttat	tctaagttaa	atcctaagg	239

<210>	56127
<211>	259
<212>	DNA
<213>	Zea mays

gctggagagg	atccacaatg	cccggatcgc	tcgaaaggcg	aacgggcatg	ctaacgtgcg	60
agaaatggac	atggagctgg	acacacacag	ggcggagcat	ggtccgaaga	ctcggcgagt	120
tcttgaggag	ggcggttatg	atgacgacga	agacgcacag	gacatggctg	cggaagacga	180
ggtgatggat	gaagttctgg	gcatcaacga	tgggatcaac	gaggacccat	ccaagccgtc	240
cgaagaagct	actactgaa					259

agagcgtcta	gacgtacaag	atctacatct	tcaagggtgct	caagcaggtg	cacccgggcg	60
agtggatatct	cgtccaaggc	catgtccatc	atgaactcct	tcatcaacga	tatcttcgag	120
aagctggctg	ccgaggccgc	caagctcgcc	cgctacaaca	agaagcccac	cataacctcc	180
cgggagatcc	agacttcggt	gcgccctcgtc	cttctctggcg	agctcgccaa	gcacgccgtc	240
tccgagggca	ccaaggccgt	taccaagttt	acttctctctt	agatcgccgc	cgcacggagc	300
gacggctctg	tttcgtttcc	tcgtactttt	aggccagtgc	taataggtng	ctcgaggaac	360
aatgtagtgt	ggaaatttct	aatatatattcc	aa			392

<211> 129
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-E2

 <400> 56129

 ccaaggcttt ctcccaccct tccattcatt cacctttaat taatttggtt ggggggttccg 60
 gggggggggtt gatcatttct ggaaccaaaa ctttggcccc aactcggttc gtgtcgtgaa 120
 taaaatcct 129

<210> 56130
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-E6

 <400> 56130

 attagctaga aaaagaatgc cgatcatgct tcacataagc cattagatgc ctaacctcgg 60
 ggagggccag gaggcttctt ccaaaaggaa aaaacctagg cgtgcaccac ccggttttcta 120
 actattcttt caatatatac tgagtactga ctcgtacaat atagcttttt actgtctttt 180
 tgcnncaaaa aaataaaatt ataaaaaaat aaaaggggg 219

<210> 56131
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-E9

 <400> 56131

 cgaattgaat ttccagacta gacccacgcg tacgcgtaga gggttggtga tatcgggggtt 60
 tc 62

<210> 56132
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-F1

<400> 56132

cttttccaac taactccaaa tcttnttttc ctgctacacc ctggtcccga aaataactgt 60
ctcgagaatg atgccaacgt gtacctttca ttttggttg accatctcct cctctctctg 120
caacaagctt cctcactaaa cccgactcca tgcttcacac acaaaacttt gaatgagata 180
caaaactntcg cgatccccaa tccatttgat ccttcctttc ccataactaat atcagctagg 240
atgcaagatt gttactctcg tcaactgacaa gaacattggc cttttctttc gatatgcatt 300
caccattatg ttcaaaaaag ttctaagcaa gtccacacagt tct 343

<210> 56133

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-F11

<400> 56133

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agtcttcaag cggagatgag gagactggga ataaaactgt gacgacagaa caacaaagt 120
cagctggggc tggctctatg aagttccatt tctcgtgcac tttatagagg taccggttgc 180
tctgagtgtt ggtaatcgac ttacctggtt tcggcaggca ggcatacacg ggcaccgcac 240
cgactaatca caagaggcag tggaacaact ttctcctcga gagttcattt ttctttgttc 300
tgagggcggc agttgaaagc ctggacaaca ctagcaattc atttatttgt aatgatccta 360
gcatagcaga tggtgttacc tacccaatgc agcgtttgta aattttttgc tgtaaaaata 420
tcaaaggcag aanaaagtac tttcgagcgt 449

<210> 56134

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-F12

<400> 56134

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catatatattga tcagacatgt atgtaaatat tactttcttgc tcgctgtcaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaatgaaagc taaaaaatga actaacctag taatggaaaa ga 222

<210> 56135
 <211> 216
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-F6
 <400> 56135

gccacgcgctc ccgttatTTTT aggtttttaa ttaagttttt ttcggaactt caattttcca 60
 atgctaaatt ttttctcaaa aaaaaaaaaac ctttggtttt gtaaaaggaa atggccggtc 120
 ttttaaaaaa aaaaaatcat tattgaaaga attttaaaaa ctttaaaatt atggaaatta 180
 aaaccctgga cattcttaga ggtttaaatt tgcctt 216

<210> 56136
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-F7
 <400> 56136

ggggggcgcg gcaagggcg gcaaggtctc ggcaaaggcg gtgccaaacg ccaccgcaag 60
 gtgctgcgcg acaatattca aggcattcacc aagcccgcg tcccgatgct tgctatgatg 120
 ggccgcgtca agcgcattctc cggggtcattc taccaagaga cccgcggtgt gctcaagatc 180
 tttctggaga acgtcattcg tgacgccattc acctacaccg agcacgcccc gcgcaagacc 240
 gtcaccgtca tggatgtcgt ctacgcgctc aagcgacag 279

<210> 56137
 <211> 230
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-G1
 <400> 56137

agcaaagcat ttactagaag gataaagggtt ttaggatcat agatgatggg aaggacgtgc 60
 tgtagattct ccttttttcc ttgggtttca tcagtcagtg tataagtact aatgtccatg 120
 ctgatgttaa tctctgtaag actgccttca gtttactgat tcaaaaaaaaa aaaaaaata 180
 taaaaaaaaa aacataaata taaaaaatgg atggattata aaaggtaact 230

<210> 56138
 <211> 162
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-G2

<400> 56138

gcaaaatgca attgacctga gcactgttga tgtcagctat gttagtagcc gggcagggta 60
 gttcctcaat ttattcanct tgaggggtct tttcagtcg atcctgggtg aagaaaacgc 120
 acctgatgat gccagaaaa tgatccaaat ggggtgggggt tt 162

<210> 56139
 <211> 57
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-G4

<400> 56139

gccacgcctt cctccaatta tttcttgaac ttcttttttt ccccttgga tctccca 57

<210> 56140
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-E10

<400> 56140

ccatctctct gatgaactcg aaccaaagct ggaggatgct tagaacgggg agacgggtgg 60
 gggataagtc aaagtttagca gcatcgatg gccaaactgcc ccctatcatg gttttattgg 120
 ccctctgctt gtttctcatt tccctttgga gccagtttct ctgttttgcg aggtcacaca 180

agccttattt gtagtattac aacacagaag ctggctgacc caaatccga cactctgggt 240
gcagcaactt aacaaaatgt ttgtacgagg gtttagagcc ccacgggtgct tctttggata 300
agtatgtcta ttaccttgta cttagctagg aacctgctta tatgcaagat ctttgcgtac 360
gacggagaat tgtcacagcg gcataattct ggtgcatctt ggattt 406

<210> 56141
<211> 206
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-G6
<400> 56141

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tccattttta nnctnncag agcggctaac ttctttttct tcttcccccc aaccaaacc 120
cccaactttt ccttaagaaa ccccccaaga acctttgttc attatacaat caatcttgggt 180
tgaagatcct tccattccaa ccaatt 206

<210> 56142
<211> 148
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-003-Q1-K1-G9
<400> 56142

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tataccgggg gggccagggg gccttgggat tgcctggcct taaaggcccc ttagccgtta 120
attcggtttg aaggggaagg tcgcaaaa 148

<210> 56143
<211> 345
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-003-Q1-K1-H1
<400> 56143

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ggcaaacatt gaatgcaagc tgaaccatac tattgacaag ccagaagagg ctaccattat 120
agagatgcag gagccggttt ccctgacctt tgccctgcgg tacatgaact ccttcaccaa 180
ggcgtcttca ctgtctgagc aagtcactat cagcctgtcg tccgagcttc cagtgggtggt 240
cgagtacaag atcgctgaga tgggttacat tagattttac ctggccccca agatcgacga 300
tgacgaggag atgaagccct gatggcctgt gacgacataa tgctc 345

<210> 56144
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-H12

<400> 56144

accccccccc cccccaccaa aagaaagaaa gagatcttgg aattgatcca ggttacaaat 60
tttgttgtgc tggcaagata catgcaaata ctctcagaaa acctgttaaa agcatatggt 120
aaagacatta tcaatattca tcatggcctt cttccctcat ttaa 164

<210> 56145
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-B7

<400> 56145

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ggtcgccgcc gaggttctgg agttggcagg gaacgcggcg aaagacaaca agaagacgcg 120
catcatcccc cgccacgtgc tcctggcgat ccgcaccgac gaggagctcg ggaagctgct 180
ggcaggcgtc accatcgcg caggcggcgt cctccccaac atccactccg tgctcctgcc 240
caagaaggcg gcggagaatg cggncagcgc cggcagcaag gagcccaagt cccccaagaa 300
gggcgccaag tcccncaaga aggcttagaa agtagggact tcatttgc 348

<210> 56146
<211> 459
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B8

<400> 56146

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ctctccttct tcgggagcga cttcgtgacc ccgaagcagg agaaccagac gctgcgcccc 180

ttcttcgacg agtggcccaa gtcgagggac tcgtggccgg agctgaacga ggacaacagc 240

ctcggtcctt cggccaccca gctctccatc tccatcccca tggcgccctc cgacttcaac 300

accagctcca gatcgccgaa tggaataccg tcaagatgaa cctgagtaac catgcggacc 360

ccaacatctc agagctgacg actctttgct gctggcctgg cctcatcgta ccttgaggcg 420

tcaaggaata cttcattacc actagtatca tgctcctgg 459

<210> 56147

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B9

<400> 56147

gctagctctt gttgttgttt tgcatgtttg attgggtgtc ccttcccagt cgagatggag 60

gaatgtcagg cgcacgtaca gacgtgttat tacgatattt ctcccct 107

<210> 56148

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-C10

<400> 56148

cccactcttc cgcaaccgcc ggccgattct agcagcgccc cagcagcctc tggcgggcgg 60

gggagcccga ggaggaggag gaggggaagat ctcgctcgat ccaaggaggt gagtacaaga 120

tggtgagctc ctcgctcgccg gtgggtcaacg tgtaccgct cgccaactac acgttcggca 180

ccaaggagcc caagatggag aaggacacct ccgtcgccga ccgcctcgcc cgtatgaagg 240

tcaactacat gaaagaagga atgcgtacaa gtgttgaagc aatcctattg gtgcaagagc 300
acaaccatgc tcacatactg ctcttgcaaa tcggtaatat attctgcaaa cttcctgggtg 360
gacggttgaa gcctggagaa aatgaaattg anggtttgaa aagaaagtat g 411

<210> 56149
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C2

<400> 56149

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tctttttcac c 71

<210> 56150
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C3

<400> 56150

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gctcggaggc tgctttgcat tgtcttttca catactacat gtctcagatt cgatcgatca 120
agttctgccc cgtcgaaaaa aatactagct gttgctactt tacagggctt tgtctcagcg 180
tattggtcgt tgctgatatg caggctcttg agcatggcgg ccatgatttc ttgatcatct 240
tggatgttac tagctgatcg gcgttccaat gacgttgtct ttgcagaacg atctttttct 300
cttaaatgac gaacaacctc cacactaagc tttttctgtg ccatcatgga cggaccacaa 360
gactgtaccg ttcaaagctt t 381

<210> 56151
<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C4

<400> 56151

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<210> 56152
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-C7

<400> 56152

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gatgcaatcg ggtgtggaat caccctggtt gatcgcactt tctatggcta cgtgagggcat 120
ctgatctcgc agcggaaggc tgcagcccca gggagtctag gaacagcgca agcaaggaat 180
cagacggaga tgcttccctt tggtgtggac gagaagcacg aaaaggttta gcaatgggtgc 240
taggccttct cttcacttgt tgaagagaga attatatatg tactcgtgcy tgcntgtgtg 300
gcgagggtag caaactggaa cttcgtacaa gcattctttc ctccttccat ttgtgacact 360
attcgccagc atcagaatgt gaaattgaat 390

<210> 56153
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-C8

<400> 56153

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accctttcaa gattacctgt gcgcctggca acgaatcgca ttattgaact tgttcaactc 120
cggaccatca ctaggcctgt gatattggca ggttcaaaag cttctgttac tcggccattg 180
caaaaagctg aaaggtttcg gactgaactg ctcaaacgag gcgttcttct aattcctgtg 240
atctttgggg cttctcagaa ggaccaaacc aaaccaaggg gttttgggtgc aagaagagct 300
tctgcatcag ttccttctgt tgggggtgac tttgaaaaac gtactgattc tattgcagca 360
aaat 364

<210> 56154
<211> 275
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-C9

<400> 56154

cccacgcgtc cgaacatcag tatcgaatcc acagttcatg cacaccttgg ggaagaaaag 60
agagagaaga gatccgtgct ctacgttgca agtctaattg ataccctgcc gagtattctt 120
cgagaggccc attaaaaaaaa agtattcttc gaggtctgtg cacttctgtc actgttttgt 180
accccggtgt taatttctgg gcggtatgat atcaagagta ccagatgta tccgtcgttg 240
ctggtctaaa cactaatggg gtgtttggcc tgnat 275

<210> 56155
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D10

<400> 56155

gaaaacccgg cccgacgcga cgcgtgcgcg tggactggc cttcttgtga gtgttgatcg 60
gccccctagc ataccagcc agaaaaggat cgctattcac gcctatcatt tccccctact 120
attcagttga actctagctc caagtactgg acgctctcgc ctttgtccag gcaatcctgt 180
gaaacgcaca tgccccccag ctcatccgtg gaacaaacgc cttttgtagt tcaaataatg 240
ataactaggg tgcaagatgc aaaggaaact aactaaaaaa tgctgtacga aaagacatga 300
cgttccttca aagaaacaat tttaaactac acaaccgggg ggg 343

<210> 56156
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D11

<400> 56156

cggagcgtgg gttccattgt agtttcacat gatactgtct gtagaatcta agcatgggct 60

gtgaatgtgg gtgaactgat tcttgtttcg tttgattgca gtggaagaag aagaggatgc 120
ggaggctcaa gaggaagcgc cggaaaatga ggcagagatc taagtaggcg catcttgtga 180
cgaggatggc gagcttctcc tgcattcatg ctgaggctcg ttgggatgat ggtctccctt 240
tgcagacgtc ctttgctgta gacgtaggcg atgtaaaccg tcctttttga ttcattctag 300
catgttctga gactgggttt atattgtaat ttgaggataa ttatatgatg ctctaagtta 360
aatcagattt ctggc 375

<210> 56157

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D12

<400> 56157

ctgtgccaac acctcccgct cgccccaacg tccggcaatc gtcgacgacc tatgaggctg 60
atggcacctc gtccatgttc tcttcgggcc cttctcagg cctcagcccc ttcgagaccg 120
aaaccattcc aaggactgcg gttttctcag aagatctcca tgaaggctga tgactgggtg 180
ggggtggctg ctttgccatc gccgagccga gccgtttctc tagagcctgt agccatgtag 240
tcaagcattc aaaggctggt ggtccaattg gcctggccag ccattgggag gaaaggggta 300
cctgtaaaat tccattttct gcgccgtctc aaaagactac tactagatta ttacaacca 360
caaggacggt ctctggctt 379

<210> 56158

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D9

<400> 56158

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gcgaagatga gcaaggagga tgtgctcaag gtgcagatct ctgaagccaa ttacgtacac 120
attttcctac cagcactttt attctgcttt ccgtttctca acgtcttgga cattgccggc 180
gagcgcggtc tctctgacaa cttctactgc taactcgggt gcaagatgcc cagcaaactt 240

cccaatccag ctgccggcaa ggagatgagg ttccccgacgg cgacaatttt ccactacaca 300
 accggattct tcagcagcat atggatccgt tgaagcgccg tgtgacaatg ccaccaaaga 360
 gcagcaacaa acaagctcaa agtctccgct aaccactaat ctcataaaag ctgaattttc 420
 t 421

<210> 56159
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-E1

<400> 56159

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 cgatggaaat aatggacatt agaaacagag acatgttcct cgagagcatc atgtgattta 120
 ttttgttgta aatcactacc gatgcagctc ggtttgccta ctgtttcatc tacactttct 180
 cttccttttt ccttgatggt ataggattaa catcactggg tgactttctg gaattgcatc 240
 gatggttcct tttggtgaga aaaggtcctg ctgctggtca agaatgtaac ttgtagagca 300
 tgatgttgaa tcgtgtgaaa ttagttcagt acttttgatc taacaaatag aaggtcgaat 360
 tggg 364

<210> 56160
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-H3

<400> 56160

ccgacgcgtc catgaatgaa cacgcgcgat cgcattgacat gacctaccac agctgctaag 60
 tgcttgcaat ctggtaagcc aactataac agttaataac gtaggtgtga ttggcctcaa 120
 ctgtgtctct atagttctga acctacctga ttagccatc actgtccttg cgccgattaa 180
 catgtctctc ctgttcgac atgacgaaga cgttgacact gtatgcatac tcaatggtac 240
 tggtcgagcc aatcaccgaa atgctgacga ggccact 277

<210> 56161

<211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-H4

 <400> 56161

 agatggtgct ctaaacttac gtaaaggaaa tacgaagcat agaagagtgc ccaagttgtg 60
 ttatgtatatt ttttcattcc ttgatcttgg atcaaagatt caaggcaaag tcagcctggt 120
 gcaaagggttt tggttgaatc cttgtatcct gccagataag gttttttgat ggtgcaattt 180
 tggattagca tttgccttag tatttagtgt ttttagttc tgtattcatt tatgatgtaa 240
 tacaactttg tgagcatagt tctgtttggc ctgctttgtt caatcgcagt gcggggttcaa 300
 tactacgttg cctgatgtta ttgtctgtta ttttctttgt aaaaa 345

<210> 56162
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-H6

 <400> 56162

 cacacgatca aacatgtggc agcgccctct cgcagtcgcc gcaatggaga gcaccttcat 60
 catgatcaag cctgacggcg tccagagggg cctcattggt gagatcatca gccgttttga 120
 gaagaagggc ttctacctca aggccttgaa gcttgtgaac gtggagaggt cgtttgctga 180
 gaagcactac gccgatctcg cctccaagcc cttcttccag ggccctcgtg actacatcat 240
 ctctggccct gtggtggcca tgggtctggga gggcaagagc gtcgtcacia ctggccgcaa 300
 gatcattggc gccaccaacc ccttggtctt tgagcccggc accatccgtg gcgactntgc 360
 tgtcgacatt ggcaggaatg tcattcatgg aagtgcagc attgagagtg ctaataagga 420
 gattgccctg tggttccccg agggc 445

<210> 56163
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-H7

<400> 56163

acgatacggtt ttatgagttt tctgttattt cctcagtggc ctaagctagc aacagtgtat 60
agttggggttg aactcaaac ttctaccatt cgagttgggt attagaacta gttattattg 120
gttcatgttg aacttatata tatttccatc cttttgcagt tagtttgagt catatttgct 180
gtgtaccaa catgtattgc aaatttggaa tttttgtaag ctataataag gccagcacgg 240
caatatcccc acatgataac cccgaaattt gtatc 275

<210> 56164

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-H8

<400> 56164

acagaattga gaaaaccagt gaaacatctc ataaacgcac tggaaagcat aggaccagtg 60
gcgtttggtg ggaaatgggg agagaaactg gatgctgctt tagttacaga catgggtcgt 120
tatagaaaat ataactttga gtctactcgt gatcttctga ggtatatcag aaataaatcg 180
ggtcattaca gagaactttc aaatgatctc aagggcatac ttgggtcatt gccagagggg 240
tttgatcact attttgctag ccgatttcca aagttgctaa ttgaggtgta caaggtcttg 300
tgggtgcact gcaaggacga agaagctttc agtaaacatt tcaatggaag ctcttatag 360
ctggagagga tngcctnttt ctactgtaaa tactaaccct gatgtagaag ttgtatgtac 420
atttggtatg tataccatat taccgtttt ata 453

<210> 56165

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-H9

<400> 56165

gtatttggtta gcaaacaatt tttgagatat taaagtcggt gataatataa gtgttggtcg 60
ttttt 65

<210> 56166
 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A1

<400> 56166

acttgatatc aggcaagaat ctgaccggct tactgatgtt atggatgcta taactgaata 60
 gctcgggtgtt ggatcatacc gtaaattggcc agaggagaaa cgccaagaat ggctactatc 120
 ggaacttaat ggaaagagggc cgttatttgg tccggacctt cccaagtcag atgagattgc 180
 tgatgttcta gatactttcc acgtatttagc tgaacttnca tcagacagct ttggtgcata 240
 tgtaatatct atggcgactg ctccctcaga tgttcttgct gtcgagctct tgcagcgtga 300
 atgccatgtg aaaaaaccac tgagagtcgt tccattgttc gaaaa 345

<210> 56167
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-A2

<400> 56167

gtgctgtttg aggtcccctg tgcacggcct gccttgaacc ctacttttcc aaaagaggaa 60
 gttagcgtgc cgttatggcc tttccactcc caaaagaagg ccgttcttga tcagattgtt 120
 gaccctacc tgaagggaaa gatagctcca caatgcttct agaagtttgc tgagacagcc 180
 gagatgtgtg tttctgatca gagtattgac cgcccctcga tgggcgatgt gctctggaac 240
 ttggag 246

<210> 56168
 <211> 368
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A5

<400> 56168

cggacgcgtg ggtgtgaatc cttccccaaa gtttgcttgg ccattgactc catccgcctg 60
 gttggtaaag gaagccctgc caaagaaccg ctgggtgatgg catggctggg atctgtcttc 120
 acaatgctgg tggtctctgat actcccatgc gcgtgctacc tctccatcaa gaaggggtgca 180
 gtgccattgt gggagatcat cctgtgcata gtcatacataa tgatcggcgc cgtatgtgca 240
 tgcgtgggat catacacctc agtcagccag atgattagca gcaccagata gcgcacgcta 300
 gctgatattt atctagtgtc tatggatcct tccaaatgnc ttgataagag tggaactggc 360
 agcttttc 368

<210> 56169
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A6
 <400> 56169

caggaggaga acggtgcagc agatactacc cctaagaaaa agaaaaggaa aacccgtgag 60
 gcttcggaag aacctgaccc taaaaccgcc ccggttggtg aaaagaaaaa aaagaaggtt 120
 aaggccgagg ttgatgagta gccaaagtttt tgggtgtatg gcgtatgaat ccgagaggtt 180
 tttgttgaaa aacagagatg aatcgcttgc tagctcaact agctttagt tcatggaggc 240
 gttgatgcan acccaactca nagtacgaag ttttctatc gncntntagc tggattttta 300
 ttttttgggt ggatatgcta gtgaactcta gtgac 335

<210> 56170
 <211> 191
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A8
 <400> 56170

gcgtcaggcn tnnntnnntn cccaatgtgc agtggtatc tcaagcattg cacagggcca 60
 ggcctcatct gccaatcag cccctcgttc aaaatcacag catcagcgac agcatgcggc 120
 acataatctg ccggatagct attcatctgc caaccaacct gccactttta cacaacagca 180

<210> 56171
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B10

<400> 56171

cccactcgtc cgcccacgcg tccgcggaact cttgggtgct gaactgaagc tggttgggga 60
gtatgggctg aggtgcaagc gtgagctttg gaggggccag tatgcactga gcaggatccg 120
taatgctgca aggcacttgc tcacccttga cgagaagaac ccccgtcgta tctttgaggg 180
tgaggcactt cttcgccgca tgaaccgcta tgggctgctt gctgaaggct agaacaagct 240
tgattatggt cttgccctca ccgctgagaa cttcctcgca aggcggcttc aaacacttgt 300
cttcaaggct ggcattggcca agtccattca ccatgctcgt gtcttgatca agcagcgtca 360
catcagggtt ggcaggcaaa atgtcaacgt cccatcattc atggtgaggg tggagtctg 419

<210> 56172
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-H2

<400> 56172

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ccgaactcgg acacgatggt gaaagcctgg ggtggcagcc accacaagag catttcctcc 120
acacagcgcc atgacgctga atccctccaa tcagtcctcc aaaatttcag cctagcccag 180
aatgacaggc tggagtcaga aaagaacaga tattctgatt ccgtgctagt ctcatcggt 240
ttctattctg cagacggtcc aaaaactacc tgccttacac ctaacatgac acangtcag 300
caggactgca tatcaagctc ctgggagatg cctcaaggct gacctctagg cgagatctta 360
acgaactcca agattagtga ggacttaagc aagtgtggat ctaggtcata tggttgggta 420
ttgaatcttg accatgcacc atgattcctc aatccatgga ga 462

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<210> 56173
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-B11

 <400> 56173

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 gctctcatgt gcgtgggctg gaaacagaa 89

<210> 56174
 <211> 138
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-B4

 <400> 56174

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 ggtggcccct tccagggtcc ttgtttttaa aaatgggtggc ctcttcccat tggctattct 120
 aaggaaaacc tcgttgga 138

<210> 56175
 <211> 105
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-B5

 <400> 56175

 cggacgcctt ggcccgcac ccttcataag cttccttcca cattcgtctg gagatctcgc 60
 gggggggcct tggcccacac caccagcttg gtgattccct tccgg 105

<210> 56176
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-F4

 <400> 56176

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gggtgcaggg acctacgagt ccattccgcc gtttgctgat tctgtttgtc gtgtaataaa 120
atgaaaaccc caccgcgttt tgaatgaaat tcaattctca gtgtcgtgtg aaatatactc 180
gattgtaaga gttttgatct tgatgttgtc aaaataacgt ccacatgac ggaagtcttg 240
c 241

<210> 56177
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-F5

<400> 56177

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tggcgcccaa ggccgagaag aaaccgcgg cgaagaagcc ggccgaggag gagccgcgg 120
ccgagaaggc gcccgcggg aagaagccga aggcggagaa gcgggtcccc gctggcaagt 180
ccgctgccaa ggaaggcggc gagggcaaga ggggcaagaa gaagggaag aagagcgtgg 240
agacctaaa gatctacatc ttcaaggtgc tgaagcaggt gcacccggac attggcatct 300
cctncaaggc catgtccatc atgaactcct tcattaacga tatcttcgag aagctc 356

<210> 56178
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F7

<400> 56178

cccacgcgtc cggttgattt gtcggttcat gtgctcctgt aattcacatc acagagagac 60
cagccgatca ataatgtagt ttctgaggac atgtttccct gcagtattgc accttgggag 120
cgcattgtaa atggcctgga acagttgtct actggatttg tttatttatt tacaataaaa 180
gccatgtgaa aataagtaac t 201

<210> 56179
<211> 447
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-F9

<400> 56179

cccacgcgtc cggctgtgga agacctggta cagcattgaa gattctaaat gatttgattc 60
aaaatgaatc tgaaccaaag aaaaagcttt atgatttgaa gatccagttg attgaggaga 120
tgggatggaa ccatgtctca acctacgaaa aacagtggat gcaagtccgc tttcccccat 180
gtctgccacc attttgattg tgaactcatt tttacaatgg ctctatcatc ctgggttcag 240
tagttgtcat tttcattgct ggggtgcgta gttcattatt tcgatggcaa acagccaact 300
aggcaagcta ctggatttgt gcgnttgggg acacagttat tccatagtta ttttgtggta 360
caatatcagg ggagtccttt ctccaaggag ataagacgga acagagatat tttgatggac 420
ttgaaggaga tnttatcctc ttcaatc 447

<210> 56180

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G12

<400> 56180

aaaaaaaaat atacaaaaaa aaaaaaatat agaaaaaaga ataaaaagaa taaaagggtg 60
aacagaatag aaagaggatg gataaatgaa tgtctaata acacacctct tttgtcgggt 120
ccattctagc ctatttcaac acggctgggg gggggcgttt tcaggtttcc caggttcttg 180
tcccctggtc gtgctctttt agctttgttc tgcgggattg caattttttc ttttttgctt 240
ctctttctct ctctctgtga tgggacaact ggtgctcttt ccatattgat aggggtagac 300

<210> 56181

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G2

<400> 56181

cccacgcgtc cgcccacgcg tccgcccacg cgtccgccgt aaacggtttg agcaagaagg 60

aatatcactt gatcagcctc ttgttacctc ttgtggcact ggtgtgacag catgtgtatt 120
 agccttgggc cttcatcgac ttggcaaaac cgatgtcgca atttatgacg gatcgtggac 180
 cgaatggggc gcccatcctg aactccagt tgcaactgct gtttagtctc ttcataatag 240
 gacgcccgtg ctcttcatag aggacctctt gattgtatctt gccccgtgct gtgattctat 300
 ggaggttggg tggatgcttg gatgtaaagc tggggaagcg aagccttttg gccttcaactg 360
 taaaagctgc aacagaaaaa actgtcacat gcacttgaat ataagataaa cttccctgat 420
 ct 422

<210> 56182
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-G3

<400> 56182

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 cagttcttga acaggagcta tacagtatac aaagcctgtt ggctcaggag aaggctagag 120
 aaacaacata tcgacaaaga ttacaaacac cacaattgca aggcctcatc caggagcaaa 180
 atcccccaat cgatctctgt ggtcttcaca tcagcgaggc aatacacgtc ctgaactacg 240
 agtcaacaa ccgaagaaag atcgtgagat caaccggtcg ccgactccag gttatgataa 300
 tatcaagcgc tcgcacccca gcaaggctga ctgccnctg cgagcagtat ctcatggaac 360
 ac 362

<210> 56183
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G5

<400> 56183

caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcy agaagggcgt 60
 gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcy tcatccccga 120

gttcatgtgc cagggcgggc acttcacccg cggcaacggc accggcgggc agtccatcta 180
 cggcgagaag ttccccgacg agaagttcgt gcgcaagcac accgcccccg gtgtgctctc 240
 catggccaac gccggggcca acaccaacgg ctcccagttc ttcattctgca ccgtcgcgac 300
 cccttggttc gacggcaagc acgtcgtctt cggccaggtc gtcgagggca tggacg 356

<210> 56184
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-G6

<400> 56184

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 ggggaattcaa ccaaactcag tgcttgtgtt cgagattgaa gtcctcagtgc cccagtaatt 120
 cgcattctgtc agctatggaa acgttggcca tgcttctcaa gtaatgaaat aattccgttg 180
 tcacctcatg ctacatacag cagattggtg ttacgagtta aatcctgtga aacttttagca 240
 ttctgtaacc gtggatgtcg agtttatgga gttccttgtg tggcgccctca agtcaagttc 300
 tcgtcaaaga ttgtaattctg atggcttcca ttgtgacttg tangcggctg caataaactt 360
 acttgatgca attattgc 378

<210> 56185
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G7

<400> 56185

acttgccaaa cgcctgaacg aaggaggagg ggcgagacat cgcaaaggag ctcttgaatg 60
 acctcctcga cggcacttca tcatccaaag cgaacaagaa cgacgacgag gagcactccg 120
 ccagcaccgc tggactcttc atcttcaacc tctccgtcgg cacatcctcc ccgcagagca 180
 tgcccggcat cctggacatc gccagccagc tcgtttggtg gcagctagtgc cgcgccctgc 240
 agcaacgccg gcgactgcct tccggcgccc atcttcctgc ccaacagctc ggccaccttc 300
 gcgcggcctt ccctgcggtg accagaagtg caagctgctc agcgagacct tgccctgcga 360

cgaggacacc tgcgattaca tagc

384

<210> 56186

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G8

<400> 56186

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gaaccttggt atattgtatc ctgc 84

<210> 56187

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G9

<400> 56187

cccacgcgtc cgccccacgcg tccgttaggg ttccacgaga gctgatctat tatgtgggtg 60

tggcggcggc aaatatgcat ggatgggatg agcgggtgtac ttgtgacctc atgttagtat 120

cagcttggtg aatactatga aaaatgcagg tgccaatgcc tttcaccatg ctactagtta 180

gtttgtctgc tacttggtcc caagtttaag aatgtgatca actgtgacac cttgttt 237

<210> 56188

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-H10

<400> 56188

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ttcagtgttt tgggatcttt gtaaggtcta tctcgttaca gcgaaagtgc ctctctactt 120

agatttatga gtaattgttg cttttttgta tgaacatggt aatggcttgt cggagtacca 180

gaggtttact atgttggttt atgctgtgaa cgtaagcgag ccatattctt tggatatgcag 240

tctgaactat atgttaaaaa agaaaaagaa atacaataac atcaaggatt cctaagaaaa 300

actgccaaca tcatgtgaca actacttatg ac

332

<210> 56189
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-H11

<400> 56189

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tgatgtgcaa gggcttcagc catgtgctta ctatgcacac catgggtatt ggcaagtttg 120
ggcccatatg caagtttgat caccgatgg gtactccaaa ctatagtatt tcaacatctt 180
cacttactgg atgtgccaat cgcttcatat cctcaaaatt ttccttgtaa ctctgtgcc 240
ttcatatctg ccatcttctg atctgcgtnc acaatacact caagtcaagg attcctctgc 300
taatccacca ccatcgnctg gaactactta tggctctgtt gggctctatat caaaggttta 360
tgctcctnac acgcttaatc cgatccccgc ttctgcagct gctggcatgc aagcg 415

<210> 56190
<211> 400
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-H12

<400> 56190

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ctgctcttcc ccaacacctc cgacaagggc gataacaccg gcgtcaccgc caagggcatc 120
cccaacagca tttccatctg attcgatcga gtcttgcca gcgtttcacc caaaaaagca 180
gagctagcgg tgattcccgat atgtcatccg tttcattttt tacatgaatg agaagcgtgg 240
taataaaaag gtttgtagtt gcgtgcgcgc cgtgtattcc ttgggtgtact ggtgctggcg 300
gtaaccactt attaccaggg atccttgtaa ttnttctgg tggtttccca aataataatg 360
tgaatatatg ggtccaaaaa aaaaaaaaaa agggccggcc 400

<210> 56191
<211> 65
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F2

<400> 56191

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taaaa 65

<210> 56192
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D5

<400> 56192

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ttttcttgct ctaggaagag cagggtttgc cgtgaaccat atggatgttg ctccgaagtt 120
tgcagggata gtgatgggag tctcaaacac ggcggggaca ctggccggaa tcgtcgggtg 180
cggcctcacg ggcaatatctc tggaggcggc aaaggcttct aacaaggatc taacggactc 240
ggaaacctgg aaaacagtct tcttcgttcc agcatatctt tgtattttca gttccgtcat 300
ttttttgatc ttttcgacag gcgaaaagat ctttgaataa aggggtggta ttactttttt 360
tgccaattct tttctta 377

<210> 56193
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D6

<400> 56193

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cattttccaa gagattttca ttttctaaaa ttagttcatt tttacttgaa aaatgagaat 120
cctttggaaa aatggaggtta ccaaactagc ctaataaaat ttatttatat gaccaggtga 180
aggccatgga gttgattgat aagttggaag ttacgaggcg aggaccatat agtggtggtc 240

taggaggaat atcgtttgat ggtgacatgc aaattgcact ttctctccgc accatcgat 300
tctcaacagc gccgagccac aacacgatgt actcatacaa agacgcagat aggctttggg 360
agtgggtcgc tcatcttcag gctgggtgcag gca 393

<210> 56194
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-002-Q1-K1-D7
<400> 56194

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aataattaaa aaaatgataa aaaaataata attttaattt atttataata taataatttt 120
tcttatattg taaattaaat gtaactcaac tgattctatt tttttatctt cttgtctgtt 180
taatgcgttt ttttacctat tttgattgtt ttgttttaca tctttttttc cttatttact 240
tgattttttac taggtctgat cttattttctc tttagattat ttgctctatc tttatgatta 300
ttggt 305

<210> 56195
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-D8
<400> 56195

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ttcttctaga aactcctagt tttgacattt caagacaagg tggaggaggt cggatcaatga 120
agatgtactc tgaaactgca aaattatgca atttttgtgc ttatgaatat gaacggtgca 180
aaaaaatggc ttctgctgct ttagcgtaca agtgtgtaga agttgcttac ctcaaggctg 240
cactactaaa acaccgtact gctacaaaag atcaacagga acttcaggca gctgtacaga 300
taacccgagg tgaaccacca tcgccttctg ccttagatat tgataattta aatagccatg 360
gatcatcaaa tgccctnctca tttaaagggtg acaattcacc tcatgtgccca ggcaatcatt 420

tgcctctagc tattcacaac caagccc

447

<210> 56196
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E10

<400> 56196

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cgccgcagcg atgccgtcgc acaagacctt ccggatcaag aagaagctgg cgaagaagat 120
gcgccagaac cgccccatcc cctactggat ccgcatgcgc acggacaaca ccatcaggta 180
caacgccaaag cgcaggcaact ggcgcgcgcac caagctcggc ttctgagcgc gcggatcggc 240
cggctcctgc gtcggaattc tagggctctc acctttcctt tggttttatc gatgtctctt 300
gtgtttctgt aagctagcaa acggttccag aaagcttttg ttaagatttt gatgacgcta 360
agaggatgga tgctactatg ctgtactcag gattccatgc tgcattgcga tgctaaatta 420
agaacctttg ctaccctt 438

<210> 56197
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E11

<400> 56197

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agggttaagaa gagccgtgaa gcagggtcaaa caagccagga taatttacct ccgagtgggtg 120
gtgatgatgc aaaagcaaca ggatccagtg gaccagacaa tgaagtaccc aagggtgatg 180
caaaaacat aggggaagaat accctttttg caccacgagc tctgggttaaa cctcttggat 240
ggacaaacaa ggatgagaag aaaccagatg ttgcaaggga gttgaaatca aa 292

<210> 56198
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E12

<400> 56198

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gagcccagct tgttaggaacc acatcgatgt atagtagttg atacgcatgt actgactaat 120
ttgagcaagt aaaatgttac tgctcacaat tatagcacac ggttcatctg tgaaaacaaa 180
tatgctcatc taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaat caaaaaaaag 300
aaatacagaa aaaaaaaaag ggggggcctc ttttgattta aaacctatat ga 352

<210> 56199

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E6

<400> 56199

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tagtattgcc tgtatccatg gacgccagct gagccggtag catggggaag aagggtgcgg 120
tcgagctcat ggcaagctgc ccaggaaga agtctttgac gcggtccgtt aaggccgagc 180
tgaaatttcg cttctgcttg atcgggcgct acctgaatta tggccggttc gtcagtgcg 240
tgggcactgg cacaccgctc tacttcgccg tcgttctgga gtacctatgc gtct 294

<210> 56200

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E7

<400> 56200

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gatctcaatt tatttctttg tgcacctaga gggtgtcaaa taatggtaac cgatatgtta 180
tctaaatatc taataatgat tatgtgattg tgatttgggc cgcatcactg ctgtaaagt 240

taaacccttg tctctgcaac atgagttatc aacaaattta agatttgaat gt 292

<210> 56201
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-E9

<400> 56201

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gtagttggtg catgctgtgt atcttaaggg tcacagcact agtagtgtac aactaggaat 120
atgtgtgtcg aatccatttg taaaatagca gccgttattg tttgtgtggt actgatccag 180
ctttttttta gaagaaaaca tgtgttgcca tcccgagatg gctggacagg tgttgctact 240

<210> 56202
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F1

<400> 56202

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cccgggcgccg acaccaccat gtcgtcgatg atgaacgcgc tggcaaactg gctggcgaaac 120
ccgcgccgca acccgctggc gcgtctccac atgcacgccg tctcctcgcg cctcaggaaa 180
tacggactga ggtacgacga cctctacgac ccctacttcg atctggacat caaggaggcg 240
ctcggtaggc tgcctaggga ggtggtcgac gcccgcatcc agcgctcaa gcgtgccatg 300
gacctctcca tgaagcacca gtacctcccg gaggaccttc aggcaca 347

<210> 56203
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F10

<400> 56203

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ctcgctccgc ttcttcatcg acaacgtcga ggatcctgtt cctaatagacc cctttcagtt 120
gctcccgaaa agaacttacc agcccagtac aatcaagcgg aaaagaaccc atggatttct 180
tacgcgtaaa tcgaccaagg gtggggcgcaa ggtgattgcc cggagaatcg ccaaaggcag 240
gcacagaatc tcagtttagc tagagcgaga aatctcagtt tagctagatc tcgctcgtag 300
cagccctgga tgttttctgt aacacagatt cgtatcgtgt tggttctatg gttagcactc 360
tgctgaaggt gagccccgcg gcaagcagca gtccatgtat ggattttt 407

<210> 56204
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F11

<400> 56204

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caacactgag atatatgaga aggctgtcaa gatgctcgaa tcttactggc tagaggagga 120
agatgatgcc atgccctctg gcgacaatcc ccagaatggc ttcaactttg ggaaccagcc 180
ctctgttcca tcaggtggat tcaacttcgg ctgaagatgc ccatttggaa tggcggctgt 240
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ccaaaacctt ggttcgggtcc cattgggtctg gtctcaggtg tttgtcatgt cagtcccagt 360
cagcagggtc agtccttgtg ctgcatcacc agtgggtgctg catggaatgg tcagtcttca 420
g 421

<210> 56205
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D3

<400> 56205

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accgagtcta gtgagccaag ctttgcgggc atgaaaaaga agaagaagaa acatgtggaa 120
cttgattctt ctcttaccga gaccggagat gttgatgaca caggagacga tcaagttaga 180

gaggatgaag aaggagaagg gattgtgctc gctgggtgccg ctgccaccag atacccttgg 240
gaaggaactg acagagatta taagtatgaa gagctgcttg gcagagtatt caacattttg 300
cgtgagaaca acccggtatct tgctgggtgat agaagaagaa ctgttatgag gccccctcaa 360
gtccttaag 369

<210> 56206
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F12

<400> 56206

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acagggaaaac cagccgtcta attggatcat tacagtgcag tgatctctac ctgtttctag 120
atgacagcac ccttttcagc aagcgaacga caactactct ggaagaatta atcagcctga 180
ataacaagac cgacaggaaa tgcagcaccg ctgaaaattc atgtgcgctt ggccgaaaca 240
tcctcgcgct caggagcagg cagtcaggca tgggtgggctt accagccacc aacctggaat 300
ccgacaccct aaagcaagcg atggagaagc tgacaacttt aaggagcagc tgcagcttca 360
tcgtcgacga gcacggggcg gttcaaggag tggtgaccca c 401

<210> 56207
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B7

<400> 56207

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gcctgtgatg aacgaatgag tatctgcaga agctttgttc aatgtgcaac caagtccgat 120
gtccgtttgc tctggttagc ttaaaaccaa cgcttccaat aatcctattg gtgtcttagt 180
ttcccccttat agtggttattt gctcggcttg aacatggcat acggaaatga aacttgaact 240
acctatggta ctgtcatcaa tttgagaccc ccatgattga caaaataaat ga 292

<210> 56208

<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B9

<400> 56208

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tcag 64

<210> 56209
<211> 286
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-C1

<400> 56209

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tcggtagctc cagcatgagt gtcggtggta gttctgtgcc tgtaaaaaact tgggatagtt 180

gatcgcggtg gatcagccgt catgctccta cagtctctat gaacaagcta agctataata 240

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<210> 56210
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-C10

<400> 56210

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gaagagcttg caaaggcggg ggttgcatcg gttctaaaga agaaccctcc agcttggttc 180

gcttacggcc agtactctgc tattctgtcg attttgatt atgcaccgct atggttcaga 240

gattgcctct ataagtttgt catgaaatgt tagtccctgg aagaataatg gctgtatgga 300

ccaaagagag agctggacag gccagttca aancatttca ttgtactgac aagcctgtac 360
gtcgtactcc tataatggat atttagaact atgctctgt 399

<210> 56211
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 56211

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cacccggaca ttggcatctc ctccaaggcc atgtccatca tgaactcctt cattaacgat 360
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<210> 56212
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C12

<400> 56212

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tgatgcaacc ctaaaacctt cgctgagttg ctcagcttgg gggacttaca caacacgaca 180
atcaac 186

<210> 56213
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C2

<400> 56213

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tagtaatatt actcggatcg gccagtgtcg acatatgcaa aaaaatgttc tgctcgttata 180
cattggttcc aaaaaaaaaa ttaaaaaaaaaa aaataatatg aaataaaaaa aaaatataaa 240
ataaaaaaat a 251

<210> 56214

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C4

<400> 56214

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tggaatcacc ctggttggtt gcactttcta tggctacgtg aggcattctga tctcgcagcg 240
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<210> 56215

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C5

<400> 56215

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agtgttagtg tcgtggtcga tcttccggaa tccaatctct gcaatgaatg caatcgggtg 180
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gcaggctgca gccccagggg gtctaggaac agcgcaggca aggaatcaga cggagatgct 300
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acttggtgaa gagagaatta 380

<210> 56216
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C6

<400> 56216

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caagttcgat cttgggaaac tcatggaggt tcatggcgac taaaagagg atgttggtgt 180
gaagcttgag aggcctgtcg agggagatga ggctgggcag gaggttgctg ctgccgagta 240
gtttgtttgc tacttctgta tctagggcag tctggacatg aggttgctta tgacgtgaac 300
ttattgagtt gtcttggtta cgtgttttca tctggcccta agattttgtc t 351

<210> 56217
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-C7

<400> 56217

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cggcaccggc gccccgtct acctcgccgc tgtcctcgaa tacctcgccg ctgaggttct 300
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<210> 56218
<211> 451

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-C8

<400> 56218

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agctggtttc gggcatgtat ctcggcgaga ttgtgaggcg ggtgctgctt anaatcgcgt  360
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<210> 56219
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-C9

<400> 56219

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gggattttcc cagcaatcag tttgataggc gacagcgtga ttgtcgggat cttctacttc  120
attggctttg cactgttctg cctagagtct ttgctaagca tgtgggtcat tcagcgtggt  180
tacctctact tccgaggaag tgggaaggaa gcggagatga ggcgggaagc agcacgcagt  240
gctgcgaggg cagcattttg acgaaccgtg tatatattat atagcacggc gtgcgttttg  300
ttcatagttt gaagtgtttg tagatcaaca tacatatgta gagtagtggt gccgtgttg  360
tgtactgtaa atcttcagaa tttttcttac cagtattttt agccctaata atanaattgt  420
aatgatgatc tcaactcagcc tttaggaaaa atttt                                     455
  
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<210> 56220
 <211> 346

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-D1

 <400> 56220

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 ctccaaaaaa gaagagcaaa cctgggaaat ctgtctatgc aaaagccaca gatactggca 180
 tcgatcctga gacagctgct aaaagactta accttgactg ggactctgct gctgatatag 240
 atggcgaaga ggaagacgat gatgaaactg aagtgccgtc tgcagtggga tatggtgcct 300
 tgtatttggtt gacagctttt ccggttatta ttgggatctc agtcgt 346

<210> 56221
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-D11

 <400> 56221

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 ttggtcttgt tttcttctag gtttcttggt ccctatcatt tggtagcttg cagctcttct 120
 ctattgctgc aagtactata atcgggatcc tcgtgaacgg actggactcg cagcttccgc 180
 tgttctggcg gttatcatta cagctgtaac tattgtaacc ctgtctgttc tgctgatatg 240
 ttgtgtcaac aaacggttct tgaatagctg tgcagtttgg cctaagtgat agcagcaaga 300
 tatctattgc aaaacatcag cgttgaacta ctaactgaaa tattctttag attctttagt 360
 cagtgcactt attgttggac tgcanaaagg aaatcaacaa attatgtgta acatgatcca 420
 t 421

<210> 56222
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-B6

<400> 56222

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gagcattata gcaagggaga aagaggttct cactgcaaa gaaagcatgc ttctttacca 120

agggaaagag tggttgtatc gaaggacggt gatactgagc aacatattaa tgaccaggag 180

agaagtgcag attctgtcgc ccgcaccact gtgagccctc caaggtcaga agacgacgac 240

atgagcgatg tgacatccac aagcttgagc tctcggagct acctgaaaag tgcgagcata 300

agtgctttca agtgtgtcgt tgccacgaag aaacacccgg aggacaatgg aatcactg 358

<210> 56223

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D12

<400> 56223

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agccaagggg agcttattgg ctgttgaagc ctgatgcaaa ataaagtacg aaactatggt 120

ttttgtttta ctaataacta gcaaacatgc ttccgttgca ttg 163

<210> 56224

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-D2

<400> 56224

gaagggctctg ggcaaaggcg ggcgcaagcg tcaccgcaag gttctccgcg acaacatcca 60

gggcatcacg aagccggcga tccggaggct ggcgaggagg ggcggcgtga agcgcacatc 120

ggggctcatc tacgaggaga cccgcggcgt gctcaagatc ttctctgaga acgtcatccg 180

cgacgccgtc acctacacgg agcacgcccg ccgcaagacc gtcaccgcca tggacgtcgt 240

ctacgccctc aagcgccagg gtcgcaccct ctacggattc ggcggctgag aggcgctacc 300

gccgctggtg gccgtggcaa aagtcttggg tcgcggtcaa gaaatcgaga gtattctgga 360

tgacgtgctt aggttcgtag tattttattat cactagtgtt tattgttagc cgggtgttggg 420

tcgaccactc taagccactg tcaaacagta atatatgagt accgaatttc

470

<210> 56225

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A10

<400> 56225

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aaggagagga gaagatggct cgtacgaagc agaccgcccg caagtccacc ggaggcaagg 120

ccccgcgcaa gcagctcgcc accaaggcgg cgaggaagtc ggcgccgacg accggcggcg 180

tgaagaagcc ccacaggtac aggcccggca ccgtggcgct ggcgcgagatc cgcaagtacc 240

agaagagcac ggagctgctc atccggaagt tgcccttaca ggccttggtc cgtgagatcg 300

ctcatgactt caagacggat ctgcggttcc agagccacgc 340

<210> 56226

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A12

<400> 56226

gtttttcgta gatgactcgc ggtcacggca atatttgtga tatttgtgtca tctgtggact 60

atggttaaat ttcagttatt tgttttcttt caccttcag aactgttagc aagagcattc 120

tggaccagga tgctcgaaca caactggctg tatgtacatt tgtgaatggt gaataaagaa 180

ggggttaataa actgctgcga aataaaaaaa aaaaaataa aaaaaaaaaa taaaaaaaaa 240

agaattaaa 249

<210> 56227

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-A2

<400> 56227

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ctagacatgt tattgcggat ggtcaaggct catgattcag agcagaagat gcacataaat 120
actggtgaat gatgccatcg acgatgatga attgatgaaa cgatggatga tgtcatcgat 180
gaaagatgga atggaactca aattttggtg gtcgcacaag tgtggagaca taaatttata 240
tatacttagt taggctcaat gttagcacia acagttgatg agcaagttaa aatttagagt 300
acacttatgt atgagttatn tgacaatgct tatttatgag atattgaatg atatttatct 360
atattatatt g 371

<210> 56228
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A4

<400> 56228

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agggatcgct ggggtgttgca ccgtgtctgc attatctgtg gttacattct ggaccctgta 120
ttttctatgg ttgtatgccc actactgttt agtattaatt atcaataaat ttgtttggga 180
cggttgaatt gcatgcattg catgacgttt cttgttggtt atttgttttc tcttgccatg 240
cttacagtat tgggtgttggc aatttaacg tgattttttt gtacctgttt cgaaaattgg 300
tgggcagctt acccgcgctt gtgc 324

<210> 56229
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A5

<400> 56229

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gatgacctta actggcaagg atgcgactga tgatttcgag gatgtcggtc acagcaacac 120
tggccgcgca atgatggatg agtacttggg gggtgaaatc gacgcgtcaa cgatcccttc 180
caggacgaag tatgtgcccc cgaaacaacc tcactacatc caggacaaga ctaccgagtt 240

tggcatcaag atccttcagt tttcgggtcc tctggcaatt ctgggcttag ctgttgccga 300
taggatgtac accaagtccg agtctgctta actttgtt 338

<210> 56230
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A6

<400> 56230

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agccagagag gcatcgagcg cacaagtgtg tacaggcaga tgtatgcata tggctaccaa 120
caggtgcatc cataagcgcc ccaagacgag ccacgagcag cgcacgcgtg ccgaccagca 180
gcagccgacg cttegcaggt tcccgaagca gatgcggggc ccctacacga aggcgatcct 240
gtagctcgtg aggtatagaa ccctctagct cgccactttt gactagcacg aacacgcgcg 300
tagggtctac 310

<210> 56231
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A7

<400> 56231

accaacaaaa gtccctcacia ctgattaact aagcttcctt caaactccaa cggggggtata 60
ccaaaagaga ccacaatcac aatcccaatt gcaatagcaa ataaacatat aactac 116

<210> 56232
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A8

<400> 56232

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tggaagggcg atggcgggcg ctgatgtgga gtaccgttgc ttcgtcggcg ggcttgacctg 120

ggccaccagc aacgagtcgc tggagaatgc cttcggcttc tacggcgaga tcctcgactc 180
 caaggtcatc accgaccggg agacggggag gtctcgcggc ttcagcttcg ttaccttctc 240
 ctccgagaac tccatgctcg acgtatcga gaacatgaac ggcaaggagc tcgacggccg 300
 taacattacc gttaaccagg cccagtcctg tggc 334

<210> 56233
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A9

<400> 56233

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 aaaaaaaaaa aaagaagaaa aaaagtacaa atgatataa gtgattcaga tttatttaaa 120
 cgtacttgca tatgttataa gcgattaggg ggtgccattt tatgggtttt aattttcctt 180
 cgggtttactt gggaggcctt ggtattttctt tgggtatttt aaattaattt gcttggccgt 240
 atttttacat ttcgaaagtt ggaaaaattt tgaattgtcc gattttattt gctt 294

<210> 56234
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B1

<400> 56234

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 tggccaggag gaccaagagc aacttcaatg ctgtcattct caaaaggctc ttcattgacca 120
 aaaccaatcg cccaccaatc tccatgcgcc gccttgtcaa gttcatggaa tgaaaggaga 180
 agaacattgc tgtgattggt ggcacagtca cagatgcccc gaggatccaa gaggttccag 240
 caatgaaggt tactgccttg aggttcaccg agacggcaag ggccaggatt gtcaatgctg 300
 gtggggagtg cctcacatt 319

<210> 56235
 <211> 425

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-B10
 <400> 56235

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 cgcctagggtg acctttaccg ctacttggag gactcacaat tttgcttttc cgattgtcgt 180
 gatctgggtt cttactgctt gggggcagct tggaggagac cactcgccat tttgcgtttt 240
 cgatcatcgg ttactactgg atcatgggtc gccatcgatg ctatgcacaa ggccacgcta 300
 gagctctctg cttgttgacg tgaatatngc tctctccctc atgtttaagc ctaagcagtt 360
 gctttgcttg gccnagactt ttgagcacta gcacacacac cacgctacac gcgctttgtg 420
 acacg 425

<210> 56236
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-002-Q1-K1-B11
 <400> 56236

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 gagaaggcgg ctccggcgga gaaggccccc gcggggaaga agcccaaggc ggagaagcgg 180
 ctacctgcgg gcaagtccgc cggcaaggag ggcgggcaca agaagggtag gaagaaggcg 240
 aagaagagcg tggagacctc caagatctac atcttcaagg tcctgaagca ggtgcacccc 300
 gacatcggca tctctcccaa ggccatgtcc atcatgaact ccttcatcaa cgacatcttc 360
 gagaagctcg ccgaggaggc cgtcaagctc gcccggtaca acatgaagcc caccatcacc 420
 ttccgcgaga tcc 433

<210> 56237
 <211> 387
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B12

<400> 56237

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tccacgcgct cgccgccggc aagaaggtea tcctcttcgg cgtccccggc gccttcaccc  180
cgacctgcag caaccagcat gtgccaggct tcatcacaca ggctgagcag ctcaaagcca  240
aggggtgtaga cgagatcctg cttatcagcg ttaacgaccc cttcgatcatg aaggcgtggg  300
cgaagaccta ccccgagaac aagcacgtga agttcctcgc cgacggatct ggagcgtaca  360
ccaaggcgct cgacctcgag ctcgatc                                     387

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<210> 56238

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-B2

<400> 56238

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tgaatggctt ccaaaggggt ggggtgatgga ggtaagagct ggtggggaga aggcggacaa  180
gatgtacaag ttttatgtcc actcaatcac tgggtctacga ttgctatcaa agcaagatgt  240
actactctat atcaatgagg caaaggtctc tgggtgcgac accaatggac aatgggacac  300
aacttctgaa gataacatac ttccanaagt ggactttcgg ccaagtggat tgcctgaagg  360
gttgggtgaa agaactagtg tacagaaaaa ccaag                                     395

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<210> 56239

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-002-Q1-K1-B3

<400> 56239

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tcacctatac tgacagcgct gggcagaggc gcgccgctgg gcgttggggg ggacttggcg 180

gcaatgttcg aacgatcgac cttggcaacg ccgaggatgt caggggaagtc tcgggaacat 240

acggcgcat tgaagggtgcc actacgctga cctcgctcag gctcgtcacc agcagcagaa 300

cctggggccc ctgggggggtc gagaacggga cgcgtttctn cgtcacg 347

<210> 56240

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B4

<400> 56240

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tgtgtttcag tcacatatat gatctagtct gtgtgtcaat gtgtcgaaaa acatgtctgt 120

gattttgtta tatgaatgta acgcgcaatg aaacatacag gactagctgc ttgcttg 177

<210> 56241

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A1

<400> 56241

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tgacatgtta ttgcgggtgg tcaaggctca tgattcagag cagaagatgc acataaatac 120

tggtgaatga tgccatcgac gatgatgaat tgatgaaacg atggatgatg tcatcgatga 180

aagatggaat ggaactcaaa ttttgggtgg cgacacaagt tggagacata aatttatata 240

tacttagtta ggctcaatgt tagcaciaaac agttgatgag caagtttaaa tttagagtac 300

acttatgtat gagttatttg acaatgctta tttatgagat attgaatgat atttatccat 360

attatattaa aaaaaaaaaa aaaaggccgg 390

<210> 56242
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-B5

<400> 56242

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tttcaaaaga acaaagtga aacttggttaa caaagagtgt tcagattgca ctggaagccc 120
gtgagatggt cttgaaggaa catttgaggaga aatccactcc tatacagcat cctattctgg 180
ttgcagcagc tctagggagt tatggggctt atcttgctga tggctctgag tacagtgggg 240
attatggtga agctggtacg aaagagttcc tgaaggactt tcatcggcgg aggcttcagg 300
ttcttgctga agcaggcccg gatttgattg cttttgaaac gatccccaac aaatcggaag 360
ctcaggcata tggtg 375

<210> 56243
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G12

<400> 56243

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ccgtgccggg tccaacacgg ctgcaagtga agcaaccagc ttacggaaga gctggaactg 180
ggccgtgcta ttctagcttt gtctgcgtt atcgccctct tttctttttt ttctctctct 240
ctctctctct ggtatgagac tactggtact ctgtcgatgt cgattggatt agactagggc 300
tggtgtgtat tctgtggatg ctccgtgttt ctggtgggat tcaagttcaa ccctgggaat 360
aatggatttc 370

<210> 56244
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G2

<400> 56244

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acttcctcgt cactgccttc gtttctcttt ccaacaatca agatgagccg tggcggtagc 120
gcgggtggtg gtcaaagttc tctgggttac ctctttggaa gcggtgagcc ccccaaacca 180
gcagtggcac cagctgtaag tgctccacct gctgctgcag gtgctccacc tgctgagaaa 240
ccacctgctg caaagcctga tggcaccagt cagattgctg ctgggggttac cagccaaacc 300
aataactacc acagggccga cgggcagAAC accggaaact ttcttacgga ccgttctttg 360
ac 362

<210> 56245

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G4

<400> 56245

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gttttgaatt tgcgttttca atccggtatt gaaggtataa taattaacaa ct 112

<210> 56246

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G5

<400> 56246

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gatctatcta atctgtaata ttcattgttt cagccttact gcgaaagcac cgtacccggg 180
ttcccccttca gatgttacac ctgtgaagaa ggagatgtcg gatggtcagc catggcttgg 240
gctgggacct cagatcgcca atcctgatct gagcttgtcc aaggaggcga gccagtgatc 300
gatgatccag catcaccatc ttcaaaactg cgatactcaa cagccatgtg tggaagtgtt 360

ctgttttggg cccctatcat tccgggtttt ttttcgcatg gataaatagg ttgtacgaaa 420
gtaaagaaca cagcta 436

<210> 56247
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G6

<400> 56247

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tcaagtcggc gatcatgacg tcgtcgggca cggcggacca cgcgggctg ccgatcaagg 180
acgagcagta caggcggggc agcttctaca gcatgggcgc cgggtacgtg aaccgcctcc 240
gcgccgtcga cccggggctg gtgtacgacc tcggcgccgg cgagtacatc gcctacctct 300
gcgggctggg catcggggac gacggcgctc aggagataac tgggcgccgc gtcgcctgcg 360
ccaagctgaa ggccatcacc gaggcggagc tcaactaccc gtcgctggtg gtgaagctgc 420
tgtcccatcc ga 432

<210> 56248
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G7

<400> 56248

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aaaaaaaaaa aaataaaaaa agacaataaa aaaaataaat aaataaataa taatgaaata 120
agatcaaata catagttgat actgtaataa caaatagagg aaaaaagcgt gcgagctggt 180
caacagtgtt acaaactggg atatcattcg tgttcactat ttgcagtggg ttcgagaacc 240
tcttggatta tgataatddd ggactcttgt ataataatta atgatgatgg tatatat 297

<210> 56249
<211> 330
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G9

<400> 56249

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aagatggctc gtacgaagca gaccgcccgc aagtcaccg gaggcaaggc cccgcgcaag 120

cagctcgcca ccaaggcggc gaggaagtcg gcgccgacga ccggcggcgt gaagaagccc 180

cacaggtaca ggcccggcac cgtggcgctg cgcgagatcc gcaagtacca gaagagcacg 240

gagctgctca tccggaagtt gcccttccag cgcttggctc gtgagatcgc tcaggacttc 300

aagacggatc tgcggttcca gagccacgcc 330

<210> 56250

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H10

<400> 56250

cccatccatt tctcaccaga agcgaaggcg gaggcggagg agcggaggta ggagatctcg 60

agcaagccgg aggcagagga gatgaagacg ttcgaccgt ggccggtctt cttccgccgg 120

gagtggaagc gcaactggcc cttcctcagc ggtttcgcca tcaccggatt catcatcacg 180

aagatgacgg ccaacttcac cgaggaggat ctcaagaact ctaagttcgt ccaggaacac 240

aagaagaagc actgacgaac caggtgaagg agttgtcaga aacgcatgtt tggccagcca 300

gttctgttat gcttttgaat gaaaaattta gacccttctt tctcgtttcc ttaatcgaaa 360

tgc 363

<210> 56251

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H11

<400> 56251

gggcaacatc cagcggcagg agcatttctg gttcggttcg attcgggctc acgagcgcac 60

cgtgctgatt cgcaggggtgc actcgagctc gagtgcggag ttgttgttgt actgtaggtt 120
gaggtttcaa aacatccatc cgtccatcgg ccccgccat ttgtggatgg tgtttctcgt 180
gccattttag ttcagctgta ttgatgcttc gtcatgtatg tgtattgtac cattcgttct 240
tgttacctac tggtaaggca acatttaate catgttcaac gcgagc 286

<210> 56252
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H12

<400> 56252

cggacgcgtg ggcggacgcg tgggaggacg cgtgggcccc agtccccacc caccaccagt 60
cttcctcgtc ctccaaatct cgcgacgaga aagcccatct aggaccacag ggcgcgcca 120
gccggcagga acgacgggag aggagggcat ggagccggct gagcggatcg agtcggcccg 180
gacggcgtg gggaagcgtc cgaggagcag ggtgctgccg cgcacggcca gcatggtgac 240
ggtgccgtcg gcggcgaagc agggggcgcca ggagcggggc gccggcgtgc cgtcgtcctg 300
ctcactgccg gctgcctgcg ccgggatggt ggccgtgccg ggggggttact actact 356

<210> 56253
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H2

<400> 56253

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tacttaagcg atggtaggca taatacatgt aactgggtct ctatatctgt gaacaacgcg 120
ggcgcatcgg caagtcacgt ggaagtacga gttacaagt aatatacggg ggatggaccc 180
tatatgtagg aagactgggt tcacatacgc gagactttgt tgcaaattca aggggggatg 240
caactg 246

<210> 56254
<211> 280
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H3

<400> 56254

ctgagagcgg gcacagagtg ccagccacca ggtacacaca gacaggcgct gtctccaaag 60

gagagagcgt tcgttcgctg cttgctcccg ggtccagcgg cccttggagg ctcgaaaccc 120

gatcgtggcg tctgcttcgc tcgtgtgtgt gtgtgtggat gtgttttttg cgtcgatatg 180

tgttgagaac tacgttacca cggatcacca gatccgctcc aaaaaaagca ataaataact 240

agtcagacta gacactagat caccaatatc tagcacctat 280

<210> 56255

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H4

<400> 56255

cccacgcgtc cgcccacgcg tccgtgaact gggatggtct gagaacaaag gagaaagaac 60

gtgtattagt acttgctgca actaacaggc catttgatct tgatgaggct gttattaggc 120

ggcttccaag gaggttgatg gtgaatttgc cagatgcac aaataggaga aagattctta 180

gtgtaatact agccaaggaa gatttggcag acgatgttga tctagaagct atagctaact 240

tgacagaagg gtactcgggt agtgatctca agaatctttg tgttactgct gctcatcgct 300

ctattaggga gattcttgaa aaggagaaga aggagagagc ttcagcagaa acagaaaata 360

ggccattgcc tctgtcgcac actagcaatg atgtccgtgc attaagaata aatgatttca 420

tacatg 426

<210> 56256

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H5

<400> 56256

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gtgtgcgag ggtgctcgca atagacaatc gatgctacta cgattaagca gttgtaagag 120
gatttataat atggctgata gtcaatttga gagctgcagt ggtatagctc aagattatca 180
gtgtaatact tatatttgac ctgtgaacag acaaacatac tctcgacatt attggttagt 240
tctgataact gtactg 256

<210> 56257
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H6

<400> 56257

cccacgcgtc cgaacgaatc gagagtgtgtg gtggaataat tatgtgggct ggaacttgga 60
gggtaggtgg tgtacttgca atgtctcggg catttgcaa ccgtctctta aaacaatttg 120
ttattgcaga ccctgagatt caggaacaag aaataaatga tgagttggag tttctaatta 180
tagctagtga tgggctgtgg gatgtggttc cgaatgagga cgctgtttca cttgtgaaga 240
tggaggagga tcctgaggca gcagcccgga agctgacaga gactgcgttc tcccgtggga 300
gcggcgataa catcacctgc atcgttgtga agttcgagca tgacaagcct ggcggcggcg 360
gctactcgcc ttcaggcgac aagagttgat tccatttgc tttgggttata cgc 413

<210> 56258
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H8

<400> 56258

ggaggatcga agaattaact ataatggcca cgtaacctt caagctggta ctaacaaaat 60
cgcactactg agtggtgctt gcggatcgtc gaatgttgga gtgcattatg agacgtggaa 120
caccggcgtc ggtggtcctg tcgtgctaca tgggtcggat gaaggttcgc gagaccttac 180
ttggcatgac ctggctctat catgttgggc tgaaaggcga gcagatgaat ctgaactcca 240
tagaaggctc aggtcactt gaatggatgc actggtcact gatagc 286

<210> 56259

<211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-G11

 <400> 56259

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 cgagctgcgg cgtgcgggggg tccagcgtgt gcgcgggaccc gtcggcggtac gccaaactggg 120
 acggcgtgca cctgacggag gccgcctacc acgccatcgc cgacagcatc ctcaacgggc 180
 cctacaccag ccccaggtc ctctgatccg aacgccggcg gtgatgctcg tcgtccgtcc 240
 atcggcagcc gcagctcata caactgtagt ggcgccaaca atgtggctgg cctgtgagct 300
 tgctagctgt ggtaattaaa cgaatgctgt acgtagtact ccctactact agtgtgagag 360
 tgtgaccgtg ttgggactgg aactg 385

<210> 56260
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-E5

 <400> 56260

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 acctgtacgg gaacatcgtc ctcaagtggag ggacgaccat gttccctggc atcgctgaca 120
 ggatgagcaa ggagattact gccctcgcgc cgagcagcat gaagatcaag gtcgtggcgc 180
 ctctgagag aaaatacagt gtttggttggtg gtggctcgat ccttgcgtcg ctcagtacgt 240
 tccagcagat gtggatatcc aaggatgagt acgatgagtc tggccctgct atcgccacc 300
 gaaaatgctt ctgagctagc tatctgccgc gcctttcata gcgtgtcaag gctgtgagat 360
 ctgcggtggt gagttgagtg tctctatgga gtatcacata ctttctg 407

<210> 56261
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-E6

<400> 56261

cccacgcgtc cgcccacgcg tccgcggacg cgtgggtgcg caggctccgt tcaagaacct 60
gatgatgatg ggatttatga tgtggatggc agggagcact gtccacctgt tcagcatcgg 120
aattaccttc tctgctctgt ggcaaccctt caacgctctt cgatctgttg ggaaagtttt 180
tgaaccattt aaggacccaa ggggtgatac tactgctcct aagttgctct ttattgcctt 240
caagttggct gccatggcat tgggtatatg gaagctcaat acattgggcc ttcttccaac 300
aaatccatca gattgggtgt cttctctggc tctgctcgg caggtttgat atgccgggag 360
agggtccac ttaaattaaa tgccatttcc atttgaactt attctactag ttggaatatt 420
aataccgagt gaca 434

<210> 56262

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E7

<400> 56262

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gcctctgaaa agttagcgac agataataca cctcatgac attcaaagga gagtatggaa 120
gctattgtcc agcaattgat taatttggca caaaacactt ctgctgacga agagcttctt 180
tctgatcttg ggactgatgt taaagacgaa tgcaccaagt ttgggtctcgg ggataatgtc 240
aaggtacaca atgtttgtc acctcatcga ctcgagccat gtgagggttc agcgtggagg 300
ttcgtcgagg actgctgtc gtagctcctg tcgctccact caagatccag caggagtggg 360
gcaactacga taagaactta cgcgacatca cgattccttg aagcaacaag ctgcgcaaca 420
tgaatactat gcta 434

<210> 56263

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E8

<400> 56263

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 aaaattgacc ctgagcagat acgagctcgt gctaagcagg ctgtccaaga ccagcgtcgg 120
 ctgaagatga acaagaaatt gcagcagctg aaagcgccca agaagaaaaa ccttcaggcg 180
 tcaaagctca gcgtggaagg ccgtggcatg atcaagtacc tgtagatcac ccaactgtggc 240
 atccgcagtc agcagtgtcc tgcacatgat acagcgctg cagggattgc tgaattggta 300
 tgaagcatcc taccaccatt ccatggcaaa cagctcggca tcagtaattg cttggatctt 360
 ttatccaagt atttttcttg cctgcaacat ccgtgcttca gaaaccagtt gagttggcta 420
 cactatca 428

<210> 56264
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-F1
 <400> 56264

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 aggagcgcgc caaccgcctc atgcaccacg tccagaacac caccagctc ggactcatgg 120
 ccgtcagcct aggctactac gagacgctca tgtcctgctc ctgcagcagc accagcagcg 180
 agatgccgac cgaggaccgc gcgcgcgcgg gcatctgccc gggcctcgtc cgcatgtccg 240
 tcggctacaa cggcacgctg gagcagcgtg gggcgagtt cgagcgcgcg ctcgcgctca 300
 tgcagacgcc agcgcgccacg caccatctta aggccgacgg cgacgaccgt gacgggtccc 360
 aagccggcga caaccagcac cgtaagcact gacgcgcttg cgctttcgag cgtgcatggc 420
 ctgtgt 426

<210> 56265
 <211> 80
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-001-Q1-K1-F11
 <400> 56265

agcacggaag attgttgtcg ctgagggcct gcacaagatg gttgaccttc tacgcggtgg 60

<210> 56266
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F12

<400> 56266

aaaaaaaaa taaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60
gggaaaaaaaa aaaataaagg ataataaata aaaaaaaaaa aacaaaaaaaa aaaaataaaa 120
aaatataaaa agacaacaaa aataaggggg gggcgttttt ggggttcctt tttttggatt 180
ctgggggctcg cgagggtttt tactcctttt tggggccctt cctcttgata ttttggggcg 240
cttgtttttaa tcgttctttg ggggtttacc ctgggggttc cccatttttg ggctttttgtg 300
aaacaccctg gttttccg 318

<210> 56267
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F2

<400> 56267

cccacgcgtc cgcggaacgc tgggggcttg aaaggtttgg actttcagag cctgtaccat 60
tttacagtgg gcgctcctgt gcttgacaag aggataatga gtctcccagc ttaccctggt 120
cccggaattg acgcatgata tcttgccctg ggggaatttt ttgtcgacag atcaacaaag 180
aaccgtggag cctgactggt ttggtttatg tgtagtggca tgcctgaaat ctatgcattg 240
catgccccgg tactaccac tcactcgtat tttatctagt tgtagccac gacgatccta 300
tgttgcacca gcgtacaagt 320

<210> 56268
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-001-Q1-K1-F4

<400> 56268

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tgctgcagtg gacgctcttg acaagaacaa gaacaccccg ttgcattacg ctgctggcta 120

cggccgcaag gagtgtgtgg atcttctttt gaagcacggt gctgctgtaa ctctccaaaa 180

cctggacggg aagacaccta tcgatgtcgc caagctgaat aaccaggacg aggttctgaa 240

gttgctcgag aaggacgect tcctttgaat accatgcctt tcgtatacac ttggactctt 300

ggtgtcatgt ttttttttca taccggttgt ttttgtctgg atagccacat gtcatggggc 360

ttaaactctgn tatgcctaaa tgctattagc atgtgggtgt tcg 403

<210> 56269

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F5

<400> 56269

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggaggaa 60

aaaataaaaa agggaggtaa gaatataaaa aatgcatgca tcattatagc atgtttgata 120

gggtttcggt attttatttt gttgccttaa ttttttcaac tggccgactg tttaaacctt 180

ggtgtttgcg aactcagtgg cgtttcccaa ctttttcggt ttgcctgatg tcgtcttttt 240

gctgggggctc gtatttatgg ttattcctgt tattttcgca ttttgaatgg gttt 294

<210> 56270

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-001-Q1-K1-F7

<400> 56270

gtttcagcaa ttcagctccc tcgcctccgc cgcggcaccg gcactacgag tgcttcgcta 60

ccagccagcc agcacactct acgagtcgcc atcttccact ccaccgaggc agctccaagc 120

catggccatg gagaaggccg cctccttctt ctctcctctt ttaggcggcg gcggcgggga 180

gccggcggcg actgtgaaat ctatcttcat ataccctatc aagtcctgca ggggtcttgc 240
 cgtgtcacag gcgcccata cctccactgg gttccggtgg gatcggcagt gggtggtggt 300
 gaacgcaaaa gggcgagcat acaccagag ggtggagccc aagcttgctc tgggccangt 360
 ggagttgccc gccgaggcct tcgctgagaa ctggcagccc acgcccagc accacctggt 420
 tatcagagca cccgga 436

<210> 56271
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F8

<400> 56271

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 aagccggagg gttgcttgct cgtcctcggc ggccgacgcc gacgtggtcg acctcttcga 180
 cgccgctaag ctactgtgg acaagttcgt gacgagcggc atggtggtgg ggctcggctc 240
 cggccctgcg tccgccctgg ccatccagta cctcggcacg cgccttcgcc ggggctctct 300
 cacgggcata accgcagtga cctcgtccgt gtcagtgcg agcgaggcag acaaggcaag 360
 gatacgggct aacagctacc aggaaggcac ccagattgat tttgctttca ctgatgctga 420
 agcgatcgaa g 431

<210> 56272
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G1

<400> 56272

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 ccatgtcctt ccgacctatg gttacgcaag gatgtacagc ggtgtatcgc tgaactcttt 120
 cctcaaatac atcactgtcc aatccctaac agaggaaggg ctgagaaagc tggggccgta 180
 cgtcgcgaag atggccgaag tggaggggct agaggcgac aagagagccg ttacccttag 240

gctgcaagag gttgaggcca acataactgt ctagctgctg tccatggtct attgcaaatt 300
 tgcaatgttc agactcgatg tgggatgctg gagttcttcc ctaggaacct tggggaactg 360
 gactattgat gtcttccaaa catgctctgg aatgttagaa agaggcggtt caactggtgc 420
 agctaataat gctca 435

<210> 56273
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-G10

<400> 56273

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 aatttgtgtt acctgcttcc tgataagatg tgttgtggtt gcattatctg cgtttgc 180
 cgatgtatct ctcgaggttt tggaccatcc agtcctagat ttcttctatt atatgcttgc 240
 ggagatactg ccttctgcgc tagttctctt cgtccttcgg aagcttctc ccaagcgggt 300
 ttcggcacia taccacccta ttaactagag agtttttttt aatgatgtta catgctaaga 360
 actccggata atctgaaact actggaaacc tac 393

<210> 56274
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C6

<400> 56274

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 gtgcgcttca attggcggcc gccgcattaa ggttgtggtg accggcccca aggggtacct 120
 gggaaggcgg ctgtgccccg cgcttgccgg cgcgggccac gccgtgcgcc cgcttgctcg 180
 gc 182

<210> 56275
 <211> 235
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C7

<400> 56275

gttctgagac cggcgacgag gaaagatgat gacgacaaca aacgttgcg tgccagggtcg 60

tcaccgcgtt cgctgccaaag aataataacc cgctgccacc ctagaggccg cgactactat 120

tacgcccttt gcttgcatgt catcccggtg tagacttggt ctcatgcgct tcaactgcac 180

ctgttgatc tggatggatt tgaccaaagt caaattgcc aacatttttat tattt 235

<210> 56276

<211> 53

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C8

<400> 56276

ctggaacgat catatacaca atcgagttaa ataagttgtg atttgactt gac 53

<210> 56277

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C9

<400> 56277

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gtcgtggtcg gtgcgcgccc ccccgttgag gcgcgcgatg tcctcctccg tccacgacga 120

cgcctatgag acggccaagt gggagaagat cacctacgcc gggatcgtga cctgcaccct 180

cctggcggcg tacaacctgt ccaagggcca cccccacttc gatgagccgc cggcgtaccc 240

ctatcttcac atccgcaaca aggagttccc atggggccct gatggcttgg ttgagacgaa 300

ggaccaccac tgagccctga ttagcacacc 330

<210> 56278

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D1

<400> 56278

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tggcgcggca agggcggcaa gggctctaggc aagggaggag ccaagcgcca ccggaagggtg 120
ctccgcgaca acatccaggg catcaccaag ccggcgatcc ggaggctggc tcggagggggc 180
ggcgtgaagc gcatctcggg gctcatctac gaggagacct gcggcgtgct caagatcttc 240
ctcgagaacg tcatacgga cgccgtcacc tacaccgagc acgcgcgccg caagaccgtc 300
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<210> 56279

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D11

<400> 56279

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tcccaccgtg gatgtgtcag ttgtagacct cactgtcaga atcgagaagg gggcctccta 180
cgaggaaatc aagaaagcta ttaaggccgc ttctgagggc cactcaagg gtatcatggg 240
ctacgtgcag gaagatctgg tttccaccga cttcaccggt gacagcaagt cgagcatctt 300
cgacgcaaaa gccgggaatg ccctgaaacg ccacttcacg aagctcgtct cgtgggtacga 360
ca 362

<210> 56280

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-001-Q1-K1-D12

<400> 56280

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gggtggagcc aagcgccacc ggaagggtgct ccgcgacaac atccagggca tcaccaagcc 120

ggcgatccgg aggctggctc ggaggggagg cgtgaagcgc atctcggggc tcattctacga 180
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caccgagcac gcgcgccgca agaccgtcac cgccatggat gtcgtctacg cgctcaagcg 300
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tanggtgata cgtctctgtc gct 383

<210> 56281
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D4

<400> 56281

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atgagcatcg tatcgagctc atcgtgaata aaacctgaat caccacaac aatgttctaa 120
gtactcagcc agtgggtattt actggttgac ctactgcagt ctgcgtcgga atagatatgt 180
ggatttactc ttcgtggggc agtattgtac tgggtggattc ataaggactc tgattatggt 240
gcgttcggaa cttataataa taagcacatg aaattgtgct tcaaaataaa 290

<210> 56282
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-001-Q1-K1-D5

<400> 56282

gtccattcg tccgttcggc gcgctcgac cagatccgtc cacgtttcat ccagatctgt 60
ctgacctgcc ttttctcccc ccgcagatca tctggatcg ggagacgcag aggtcccgcg 120
gcttcggctt cgtaaccttc tccacggagg acgcgatgcy cagcgccatc gagggcatga 180
acggcaagga gctcgacggc cgcaacatca ccgttaacga ggcccagtcg cgcggcggcc 240
gtggaggcgg cgggtggcgga tacggtggcg ggcgccgtga tggaggcggc tacggcggtg 300
gcggtggagg ctacggcggt ggtcgtggag gctacngcgg cgggtgggtga tactgtggtg 360

caaaccgcgg cggtgtgtac tgcaacaacg acgggaactg gaagaact

408

<210> 56283
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D6

<400> 56283

aaggtaccgc aactgtcggg tctcaggctc cactgactg cagcatgcgt tcagaggacg 60
caccctgacg gatcggtcac ctacgttgac gtctacatcg gcacatacaa actcatcagc 120
gcatgccaat aagctaggtt ttgactaccc tatgctgtca tgcttaggct actgcggcag 180
ccggtacacc ttacacctga gcgtaggatg ctgcggtacg aagcaggtta actctacgtc 240
ggtggtggtg gggaa 255

<210> 56284
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D8

<400> 56284

cccacgcgtc cgccccacgcg tccgccccacg cgtccgccca tttcaaattcc ttcgatcgca 60
cagcgccgcc cgccctcacg cagctctctc cgatggcgcg cacgaagcag acggcgagga 120
agtcgaccgg cggcaaggcg ccgcggaagc agctggccac caaggcggcg cgaaagtcgg 180
ccccggccac cggcggcgtg aagaagccgc acaggtttcg ccccggcacc gtcgcgctcc 240
gcgagatccg caagtaccag aagagcacgg agct 274

<210> 56285
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D9

<400> 56285

cccacgcgtc cgccccacgcg tccgtggatg gtaagtactt tataataaaa aaaaaaggag 60

aaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaagaaaag aaaaaaaaaa aaaaaaaaaa 120
aaggtccttt ggtctatcgg tttctagctt acgtgctctt gcatgcaata tcttaacttt 180
tttatattgt cacctaattt caattaactg gccgacagtt cacaatttcg ggcttgggaa 240
taccttggcg tttcgaaatt tactttgttt gcatcatatt c 281

<210> 56286
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E1

<400> 56286

ctcacgcgtg cgctgacgcy ttggaactcg aaggggttact atgcctagga ggctgcccgt 60
ttgaccgccc acgccatcat gatgaacaag tctgggcaga ttgtcaacgc ctatgcctga 120
gcgctagact gcgatacctc caacatcgtc tgcaagggtg ctgagctcat taccaacatc 180
gacaggcgat ctgtcacgga gctcgcgaag gagtctaagt ttctgaagaa cggatatgct 240
ggatatggtga agatgattta caccaagcct 270

<210> 56287
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C5

<400> 56287

ggagtcgtgg gcgacctaga aagaggccat tggaaactga aactgcagaa acccaagttg 60
ctgcatcggt ggagaagcga gggcgtggga ggccaagaaa gaagaatcca tcggcagggt 120
ggtctgcagg aaccagggat actgcattaa aggggattaa gagagggcct gggaggccaa 180
ggaaggccag gccttttgaa actgagtcgt tgaaaactgc acttgagggtg tctagggact 240
tgacagaaga tgggcctcaa aaggatgggg atcttgtgtc agggaagaaa gcagatactc 300
atggtgtggt ttggtagtgt caactgagga ggtagccatt gctcccatgg atgctgggtg 360
cgcagacgcc aagggttgat ctgatggatg tgggcaccaa gagtcactag tgctctgatg 420
gtgcgaaca 429

<210> 56288
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E10

<400> 56288

at tt t t a t a t g t t t c a g t t t t c a t g t a t a t c c c t c c c t t c a t t t c c a a t g a a a t a t t g g c 60
t t c t a a t a t a a t c c g a t g g a g t t c a c t a t c g g c t t t a g c t t t t g t g t t c c g t a a t c t t g t 120
t a a c a a g a a t g c t t t c t g c a a t t a c t g t c a a a t c a c c a c t g g a t g t t c t t a a t t c t g t g t 180
a a c t t c t t t a a t c t t a t a g a t g g a c c t c a a a a t g a t t c t g a a c c c a a c t a t t t g a a t g t g 240
g t c a t g c a g t g a g a t a g a a a a g t t g a a a c t t t c a g a g c t t a c g t g c c g g g a a g g c a t t g t 300
t g a a g t t g c a a a g a t a a t t t a t g g a g t g c a t g a c g a a g c g a a a g g a t a a a g c t t c g a g t t 360
g g a g t t g a g c t g g a t c t g c g a t g a a t c g 388

<210> 56289
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E11

<400> 56289

c t g g a g a g g t g g c a g g g g c t g c c a g c t t t a a c a t c a t t c c c a g c a g c a c c g g t g c t g c c a a 60
g g c t g t c g g t a a g g t t c t t c c t g a a t t g a a t g g c a a g c t c a c t g g c a t g t c c t t c c g g g t 120
t c c c a c c g t g g a t g t g t c a g t t g t a g a c c t c a c t g t c a g a a t c g a g a a g g g g g c c t c c t a 180
c g a g g a a a t c a a g a a g c t a t t a a g g c c g c t t c t g a g g g c c a c t c a a g g g t a t c a t g g g 240
c t a c g t g g a g g a g g a t c t g g t t t c c a c c g a c t t c a c c g g t g a c a g c a a g t c g a g c a t c t t 300
c g a c g c c a a g g c c g g g a t t g c c c t g a a c g a c c a c t t t a t c a a g c t c g t c t c 351

<210> 56290
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E12

<400> 56290

cccacgcgtc cggaacaagg gcggtgctac aactactgcg ttgtgttga tgtaaagcct 60
tgatatatta tcactttccc atgtagttgt ggctataggc ggcttctttt cagtgaacat 120
attgtctggt tcaagcgttct tgctggatgg atagtaaagt gctgtaccat ttgggtg 177

<210> 56291

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-E3

<400> 56291

actcctccga acccatctac gataccatct acaactctag cattaaatgt gacgtttatt 60
ggggggagta cctgtacggg gacattgact ctaaattatg tacgaccatg ttccctgtca 120
tctctaacat tatgagcata gatattactg tccttgctcc tagcagcttg aatatcaatg 180
tctatgcgcc ttctgaaata aaatacattc tttgaattgt ttactctatc cttgtatcgc 240
tcatatcggt ccattaaatg ttaatatcca aggattgatt actaatgatt ctgttccttt 300
tatattccac ctaaaatgct tttt 324

<210> 56292

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A9

<400> 56292

cccacgcgtc cgacgtttgc tagtgactct agcctgccag gcagttctta acttcactgc 60
tctgcctgtg catgttatta ttcctcaa atgtcgtctt tatcagtaca ttgccccatc 120
acaggcacag acatactggt agatgtatga gcaattgtcg gcttgtaatt tattggtaga 180
gctatgctcc ccctaacatt tatatgtata tatgtgctca tgattcttg 229

<210> 56293

<211> 105

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B1

<400> 56293

cccacgcgtc cgagcttcca gttgcctgta cacttcatta aatcgagcac tagcaacgga 60

gatagctaga tagaggaaga ctaatattac tagttagcac tagat 105

<210> 56294

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B10

<400> 56294

cccacgcgtc cgggacaaag gagcgagtga tgattattca atccaacagc gactaggtca 60

cttghtaatca atccatggta acacatcgta gcacaagaga gagcgccagt cttgcaggag 120

agacatccat tctcctgctt aaactccaca aacagatagt agcctaacc agacagaatt 180

tctgaagcct aaaagatccc cccaataccg acgaaaccac tgcattccaa tcagttgatt 240

gcattagcca agcacaagcg c 261

<210> 56295

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B12

<400> 56295

catatttata atatcgtaga catgtgttct aaaaaaaaaa aaaaaaaaaa aaaaaaagag 60

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggggggcc 180

gttttacagg gaccaggtt ttgttcccct ggtttgcaac gtaaagattt tttttagggg 240

ccccctaatt taaataaagg gggggtgttt taaaaaaggt ttgccgggaa a 291

<210> 56296

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-001-Q1-K1-B2

<400> 56296

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gttgaaagtg ggagtatcta acttccgaaa tgcctgggaa aacatggatc cagagactga 120
gcgagttgac gagtatgggc ttggaataag ggagagcttg gctgaagctg taagtgctgt 180
tataagcatn cttggcatgc agccttgtga gggaactgac gtggtcccaa agcaattcag 240
gtcgcacact tgtctgctct ctgggtgtgggt tattggcaac gtgaaagtct tggtgagact 300
gtcattttga aatagtgcac cgaaagaggt ggccatgaaa gctgcagtta gatctgatga 360
tccagagatc agtgacagga tccacgaaat tgtcgctaata ggctaaaaac aatggtagta 420
tctttttttt tact 434

<210> 56297

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B3

<400> 56297

gtgatcaaag gatgggatca ggggtctcctg ggaatgtgcg ttggtgaaaa gcggaagttg 60
aagatcccat caaagcttgg ctatgggcct caaggctcgc cacctactat tcctggtgga 120
gcaaccctca tatttgacac ggagcttgtc gctgtcaatg gagaaccaac caaccaatct 180
gacgagcttt agattcatca aacaaatgaa tccattcacc tttttactcg gaactcagca 240
gatgtaatac tttccaagaa atgagccttc attcctgcc actttcatag tttctttcgc 300
tgttccacac tgacatctat gattttttgga gcaaactctg atcttgtttg actagtttac 360
acgtttgtgt gtggaatctg aagagctgggt ctg 393

<210> 56298

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B5

<400> 56298

cccacgcgtc cgccacgcg tccgcggacg cgtgggacaa gatcatggac ttcatcaagt 60
 ttgacgtcgg caacgtggtc atggtgactg gtgggaggaa caccgggctg gtaggagtca 120
 tcaagaacag ggagaagcac aagggcagct ttgagaccat ccatgtgctg cttggagctt 180
 tttgctatgt ctagttttct cctatttgtt gtacaggaaa acatagaata gaattcaaat 240
 ttgggtggtcg caaaagtgtg gagactttta ttcataataa gttaggctta acattagtgc 300
 aaacagttgt atttttagttt agatttagag tacacttatg tatgcattgt ttgacaatgt 360
 ttatttatga tatattgaat ggtacttatt tatattatat taattataat gttggtcaat 420

<210> 56299
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B6

<400> 56299

cgaagttcaa cctaaggcag ctgacctcac cggagtcgga gaagtaagcc tatgagtgc 60
 aaaatcttcc aggcaaaacg tggaccaact taaatcagca gcagcgtcag gtggttaggc 120
 gctagcgaat taaattaagg ccggtcgaac ctactgtct tgaaagattc agatgttcta 180
 atgtctaattg ctttaccacc agtggttagt ggttgctggt tcatgcttcc caggtttagag 240
 tcacgatttt ttttttttga ggctgtagaa agatctgacg atacttcattg tgtgctttct 300
 ctctgacgat ggttccatac aggggcttac caaagacgta gaatctatcg t 351

<210> 56300
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B7

<400> 56300

cttaggagct ggaatggtaa actcttaatt ttcaaccggc tagttttctt gagcctacag 60
 atgcatgcta caagacaaat ttttcatcag atttgcacca taatacttgt aatatttttag 120
 atagcttgaa gagatcatac cttttgtttt tattgtcttt ctacattcag acatctagga 180
 gctttacgaa ggaagagatc tctaaacata acacaaggaa ggactgttgg atcgctcatca 240

aggacaaggt ctatgatgtc actccttatg tagaggagca tccaggcgga gatgccattc 300
 taaataatgc tgggtggtgat tccacagagg gcttttttgg gtctgtaact tatattgctt 360
 cctatacctc ataacatgct ctgtcattgc ctgattagtt cagcac 406

<210> 56301
 <211> 100
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B8

<400> 56301

cccacgcgtc cgccacgcg tccgaggacg cgtgggaaaa aaaaaaaaaa aaagagagag 60
 aaaaaaaaaa aaaaaaggaa aaaaaatata aaaatataaa 100

<210> 56302
 <211> 143
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C1

<400> 56302

aaaaaacata aacatataaa aaaaaaaaaag aaaaaaacia aaaaaaagca aaaatagggg 60
 ggactacact actggggcgg cctgggtctt aacttgagct ttcaccaagc tcccctcgct 120
 tggttctctt tgccctcatt ttt 143

<210> 56303
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C10

<400> 56303

cggacgcgtg ggcggacgcg tgggaggacg cgtggggcga cgcgtgggag gacgcgtggg 60
 cgagtccaag cattcaccgg aggatcccaa atcacactct ccagtaaccg tccgcttctc 120
 cagccgcata tctagccgag tctatctcct cctcctccgc cgccgccgca actatcctaa 180
 tggctcgctt cgccgtgggc gccgccatcg tcgcctcctt cgccgtcgct gcggcgggcg 240

aggccccgac cacagctccc aaggccgcgc ccaggatggc cccgctgccg cctccccctg 300
cgcggtcccc ggccacagcc ccggcgc 327

<210> 56304
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A6

<400> 56304

eggacgcgtg ggcggacgcg tgggatcggg aacgagacgt tcgagaagct ggggacgcta 60
ggcacgtcgg cgaacctgct ggtgtacctg acgcaggtgt tccacatgcg gagcgtggac 120
gcgggcgcgc tactcaacgg gctcaacggc accaccagcc tcgcccccat catcggcgcc 180
ttcctctccg acgcctacct cggecgetac ctgcgcctcg ccatcgcttc cgtcgctcc 240
ctcatcgtaa gcgcagcgat ccatcttcag tccacccttc tcgctcgta cctgcttaat 300
ttgagggaca ccggggtcgg aatcagttcg ggggtagatg gaatggaatt cggcattgct 360
gtgcttgc 368

<210> 56305
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C11

<400> 56305

ggggcaagaa gctgattgtc cagaagagga gggctgcgct cagtgacttt gacaggttca 60
aggtcatgct ggcaaggatc aagaggggtg gtgctatcag gcaagagctc gccaagctga 120
agaaggcgtc cacggcttaa gtcccttttg gtggatggca tgtagtttt tggtttcatg 180
ttgcatcagc attttgtttt gagtgttgtc aaagccagaa ttagtaatat gtttcatgtg 240
tacccttttc aaacttcac aagaatgggt gtgctctgga tattttgtcg ggaatgatat 300
gaaatactta agttagcttg cgac 324

<210> 56306
<211> 304

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-C12

 <400> 56306

 attagatgca acctgcaagt ctctgcttcg agtgtactat tggctgggtga taaattaaaa 60
 gtgggtaccga actgttttaga caatgatctc atgcgactat cagcagcaat gaaaacttgg 120
 tacttgggtac ttggtagact atttcattgg atattcggct gtatatgatc cgatgtctta 180
 ttttgggggtg tgtgtgtgta tgcccccatc gaggacagtc gatattggct gtgtttatcc 240
 ccgaaacact attcttccctt gagtcatggc attattaatg ggtgcttttt gcactcattg 300
 agtc 304

<210> 56307
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-C2

 <400> 56307

 aaaaaacata caaaaataaa cataaacaag aaaaaaaca aaataaaaaca aaaaaaaacg 60
 ggattcaaaa actggagaaa cagataaaga gcaattaaac ggaacagaaa cgtgacatcc 120
 cccattcat ttccctgtt tatttacagg ttcattttcc ttctggctgc ggtcagctag 180
 cccatggct gtacatttct aggtcaagga ctagtgaaaa cgcggcattg ttgaactgga 240
 ccgtgaatgc atgtagccgc acatgtacat cttataaaa ttt 283

<210> 56308
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-C3

 <400> 56308

 cccacgcgta cgaatgggat caaatgtgtt attggaagcg tcgggctaaa cttcccggta 60
 gtatgtgtga ttgagagcag gatggatatc aaagggatta gatgtgagta taggtgggag 120
 tggatcggat gcattgccat acgcaggcgt atacactgaa gcatcaactg tactcctcac 180

tgcattgctg tctctgccta aggcaaccac tgatgaaccc cgcattgccac acacacccac 240
 actgactcac aactctgccc acaactacag caccaactcc agtcccccca acaactgtct 300
 caacaactgg gtctgtcatt cactgcatga tgcataacgt cctcgtgaac tacgactggg 360
 actacgactt catgcatacg gtcattgaca 390

<210> 56309
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-C4

<400> 56309

gaaaccttcg acatagacct caaggagcag aagggtgacag tcaaaggcaa tgtcaagcct 60
 gaggacgtct tccagacggg ttccaagtcg gggaagagga cctcctactg ggagggcgaa 120
 gccacggccc cggacgctgc ggcgggtcca gaagccgaag cagctcccgg caccgcggca 180
 gaagcgcttc ctgctgctgc tccggcgggc ccagagatca cccagccaa agctgacgcc 240
 tgatcgtcac gctattattc actcacatgt gatgctgcgg ctgcgactcc taaaccttaa 300
 atctagaaat agctggggat tgggtttgca ttgcatcgtg ttcttgccgg tctaacaagt 360
 gactataaga ataatggaaa taacgatgaa aa 392

<210> 56310
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A1

<400> 56310

cccacgcgtc cgatcggggc ccgcgcgctg gaggcgcttc gcaggcactg cagggtccctg 60
 gtgggggtcc ggcgggtgat gcacccgatc gacctggcgg acaaggtgtg ccagcacgac 120
 gaggcgcacg ccatcgcgcg cagcatgccg aggctgcggc acctggagat ggggtacatg 180
 ctggtggcga cggaggcggt gctggagatc ctggggcagt gccgcgagct caagttcctg 240
 gacctgcgcg gctgctgggc cgtggacgac cggttcctgc gggagcgcca cccggggc 298

<210> 56311
 <211> 141
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-A10

 <400> 56311

 cagaaacttc aaatgtgggt tatgatccaa gtccaaggga tgggcagaac ttagattcat 60
 caccgacagc tgtacctttg gctgttacaa tgaataaaaa agagcacgtg atatcagtga 120
 ataagacaga cattagggtc t 141

<210> 56312
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-A11

 <400> 56312

 cggacgcgtg ggcttctggt cttcctcgct gctgccgtca tcgtcttgct ctgctgatcg 60
 taatagaatg cttccaaatc gatgtgtcgc atcgcatggt ctctttatta ctactagtag 120
 gtaccttttt ttctttgttc ggtctagttg agacaagatt tagaattaag acgctgggtt 180
 tgggtggacc tcgttaatga tgtaattata tatttgttcc ttcgtctaag gctattttta 240
 atggtgggtt catgcaaaaa aaatatacaa cagtatgact gg 282

<210> 56313
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-A12

 <400> 56313

 cgccgtcatc gtccgccagc gcaagccgtg gcgtcgcaag gacggtgtct acatgtactt 60
 cgaagataat gctggagtga ttgtgaatcc caagggtgag atgaaagggt ctgcaatcac 120
 tggacctatc ggcaaggagt gtgctgacct ttggcctagg atcgccagtg cagcaaatgc 180
 catcgtttga gagcttggtg gaatgtgttt agacttgagt atgatcatct caattgtgtg 240
 ttgcagggtg tgtaagggtg ctattggact tgatggctcc ttttatgttg gtcactcaat 300

tctgtagtga acaaaatttc tgggtgccta agttgctgctc tgagatgcta taatattaat 360
 ttgtct 366

<210> 56314
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A3

<400> 56314

gccacgcgtg cgttttgtca tggcgtgcgc gccatgtacg ccttggagta ctggtgctgg 60
 cggataccac ttatgaccag ggatcctcgt aatggctcgt gatggactac caatggtagt 120
 gcgactatat tgttcacatc catgctgggc gcaaacaatg gagaaccaac caaccaatct 180
 gacgagcttt agattcatca aaaaaaatga atccattcac ctttttactc ggaactcagc 240
 agatgtaata ctttccaaga aatgagcctt cattccctgc cactttcata gtttctttcg 300
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<210> 56315
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A4

<400> 56315

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 aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaata aaaaaataaa aaaaaataat aaaaaaatat aaaaaaata aaaaacatat 180
 taataaaaaa aactataata ttcattaatc aaatgaatac attct 225

<210> 56316
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A5

<400> 56316

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atagaagatt gatctgtcaa aaaaaaaaga aaaaatcaat acgtagatag cttattaaaa 180
ggaatataag ctgaataagc tactgaaggt tgaatgggat aacctgtctg taaatgcccc 240
catatgctct gggcctaagt cacgctacat taaatcattt gaagattacc tgggcatgtt 300
tg 302

<210> 56317

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A2

<400> 56317

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ggtgcactga aagggtgtgat acaatgggga aaccatgctc tgtacaactc agtgcacgac 120
gcagttctgg ccattgtaga ttttatcaag aggggtggggc ccataggctg ggactaccta 180
tggagctaga tacagcactt gttatatcat ttgtaactag attgggctct agctcttgtg 240
tgtcttctcc aattgtgaca tctagcgtga gcattatcat tgggacattt ttcaatagag 300
atatgctatg tgtcttatca cccctgtat cagacatgca tcccgttctt attctagtat 360
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<210> 56318

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-A7

<400> 56318

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accgcgactt cgtgctcgcc ctcaacagcg cgctcgccgc cgacgaccgc gtcgagatct 120
gccagctccc cgtcggcgac ggcgtcacgc tctgccgccg cgtcaagtga aaaa 174

<210> 56319
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-001-Q1-K1-A8

<400> 56319

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 ccagacggtt tccaagtcgg ggaagaggac ctctactgg gagggcgaag ccacggcccc 120
 ggacgctgcg gcggctccag aagccgaagc agctcccggc accgcggcag aagcgctgc 180
 tgctgctgct ccggcggcgc cagagatcac cccagccaaa gctgacgctt gatcgtcacg 240
 ctattattca ctacatgtg atgctgcggc tgcgactcct aaaccttaaa tctagaaata 300
 gctggggatt gggtttgcatt tgcacgtgtg tcttgccggc ctagcaagtg actantagaa 360
 taatggaata aacgatga 378

<210> 56320
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-B9

<400> 56320

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 aaaaaaaaaa gggggggcct ctataggggc cccattttta tatacgcgtg tatgccacgt 120
 tatatctctt atatagtgac ctcaatatac attactgtgg ccggatttat acagcgtcga 180
 ctctgaaaac cccgtggtgt tcccaatt 208

<210> 56321
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-D2

<400> 56321

cccacgcgtc cgaaattggc gtgacaagcg gcgtgcagag attgggcagg ggagcctgga 60
 ttcggttact gggaacagct aggggggcaat taagcgaaca gaaacgtgac atccacccat 120
 gcatttcggt tgtttatttc caggtccatt ttcgttctgg cggcggtcgg caggccccag 180
 ggttgtagat ttctaggtca gggaagagtg ggaaagcggc agcgttgtag tggacagtga 240
 atgcatgtgg ttgtacatgt aaattctcag aaaagttttg tgagaatgaa aggacatatt 300
 tgagttca 308

<210> 56322
 <211> 330
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-001-Q1-K1-D7

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 caccgccgaag gacgaggacg agccgcgccc tccggtcttg gcacctcttg aggtgtaagg 120
 tcccaactgt gtccttgaaa tggcagtttg atcgggtcct agataggttt ctatcttacg 180
 ataaggacaa tgctaaggca gttggttacc ttaatcttta tggacagatg ctatgtgttg 240
 cttctgtggc acttttgttt aagctaagtt ttgcggagac aagatactta tatatgttcc 300
 cgatgaaatt aaaaaaaaaa aaannaaaaan 330

<210> 56323
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-001-Q1-K1-E2

<400> 56323
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 ttcacctccc aggtcatcat catgaaccac cctgggcaga ttggcaacgg ctatgccccca 120
 gtgctggact gccacacctc ccacatcgcc gtcaagtttg ctgagctcat taccaagatc 180
 gacaggcgat ctggcaagga gctcgagaag gagcccaagt tcctgaagaa cggatgatgct 240

ggatatggtga agatgattcc caccaagcct atggtggtgg agacattctc cgcgtatcct 300
 nccctgggggt aggttgccgt ccgcgacatg aggcaaacgg ttgctgttgg agtcatcaag 360
 agtgtggaga agaaggaccc aaccggcgcc aaggtgacca aggcggtcgc tctagaggat 420
 ccaagcttac 430

<210> 56324
 <211> 312
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-001-Q1-K1-E4

<400> 56324

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 tattacttca gcttattctt agagttgtca gatattgcc a tgcccttcat aagggttgct 120
 atcagcaaag tgagctctgc ggtgtcctac ttctgggtgt caatgattgg aaggtctctt 180
 gggctgattt tctcagggat tagacaatca ctaggctgga aataagctta tacggtcata 240
 cctgttgagt tttgagtctg acttctgcga ctgaatgaat gtctgttagg ttatgcattg 300
 taaaanaaaa at 312

<210> 56325
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-F3

<400> 56325

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 ttacaagggc ttctcttttt cgaacatccc accgatctga aggagtgtgc tgctgcctgc 120
 tggttatgaa gtggtgtcgc tggtttaaga gtttgtcgac tctgtcgaat ggctctgtag 180
 acacccttgt tctacatctg tctgtggcca ttctctttga acactctaga atgaactggt 240
 ggatgtgtac agataaatgc agccatagtt gtgctcctcc atcgcggttt ggccgattgg 300
 aaggttgctt gttgtgctcg tgtgaccatg ttcaactaat acgcacgct acttgtgcat 360
 taaaaaataa ttattatat 379

<210> 56326
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-F6

 <400> 56326

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 gagcgctcgt ttccggccgtc tttttttcca ctgtaccaat catcctgttg ctaccagtag 180
 tggcttagcg gagaatgatg cacacttccc cccgctggga acgcggcgat ttttgctgga 240
 acagttgaag gccgagccgg ggccaatcct tttggcctgg ccgtgcactg cttgctga 298

<210> 56327
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-F9

 <400> 56327

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 gtgagtatcg cgcgatcaga tgcgagcaag ggtaagaaga gccgtgaagc aggtcaaaca 120
 agccaggata atttacctcc gagtgggtgg gatgatgcaa aagcaacagg atccagtgga 180
 ccagacaatg aagtacccaa ggggtgatgca aaaaccatag ggaagaatac cttttttgca 240
 ccacgagctc tggttaaacc tcttggatgg acaaacaagg gtgagaagaa accagatgtt 300
 gcacgggagt tgaaatcaaa tgaggagtgc cgaaatctgt tactaaagaa gtgatatcag 360
 ttggcagggtg tggatcttca tgccccaatc cagagccaag atttgtggtg ctttcatttc 420
 tatgttagaa tgatggacct gtaattgcag ctt 453

<210> 56328
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-001-Q1-K1-G3

<400> 56328

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aatacagtaa cacggccact tttaaaaga aaaaacggac ctatcgccaa tcaactggaaa 120

gtacgagtta caactgaata tatgattgat ataccctata tctaggaaga ctgacatcac 180

agatgggaga cataactaaca aatcgaaggg ggcatttaac tgataaggct gacgctgaat 240

cacaaaaact tcgggccttt ccaggggcag taacaacacc cggctagttc atcggctcttt 300

cctcctgcag caaggcattt aaccagtaat aataccggca agcacatcgc tcttcctct 360

cgcaaaaata gtgtagacaa ggcgtatg 388

<210> 56329

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-001-Q1-K1-H9

<400> 56329

cggtccggaa ttaccggctc gagcgacgca tgcgtccatg cattgcttac cataagcgaa 60

tgccgatgcg gac 73

<210> 56330

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-A11

<400> 56330

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agatgagcta tataactagc tcacgcagct gactgtatga tctgtagttc ccccgttatc 120

tgaattgttc atgtattacg ccatgtactg ctcagcagac ctatgtagct agttgcactt 180

gtagtacttc agcatttctg ttgccagttg tttgtttcgt ctaaaaaaag ctaaaaacca 240

aggaag 246

<210> 56331

<211> 329

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-A3

 <400> 56331

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 cttgCGGacc tggTgaccat ccacaccccg aaggacgagg acgagccgCG ccctccggtc 120
 ttggcacctg ctgaggtgta aggtcccaac tgtgtccttg aaatggcagt ttgatcgggt 180
 cctagatagg tttctatctt acgataagga caatgctaag gcagttgggt accttaatct 240
 ttatggacag atgctatgtg ttgcttctgc ggcacttttg ttttaagctaa gttttgCGga 300
 gacaagatac ttatatatgt tcccgatga 329

<210> 56332
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-002-Q1-K1-B8

 <400> 56332

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 tagtgtagtt tagttctttg tatcgTTaat ctggaagtgg ctccagtatg tcaaaatgct 180
 gttttatTTT cttctttcct gggTtTgTga gtaatgtgtt agacagaact agccaccttt 240
 agcaatttat gtaaattctt ttagccttta aaaaaaaaaa can 283

<210> 56333
 <211> 61
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-C3

 <400> 56333

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg 60

 a 61

<210> 56334
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-D10

 <400> 56334

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 aatttgtcaa tgttgagccc ttaggcttga attgtgggac cctttgttcg ttttcctaga 120
 ctctgatgct gtatgcaact gaaacgagta aatctatgat cttaaggctg cagtatgttc 180
 ttgtgttaaa a 191

<210> 56335
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-E2

 <400> 56335

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 ataattaaaa aaaagaacaa aaaaaaaaaa caaaaaaggg caacctatctt aggggttcca 120
 ttcttacgct cccgtgcttg caacctataa actcttcttt tgtgccccct aaattcaatc 180
 cctgtcctta gttttcacca gtttttctgg taaaaccttg ttgatacca ttttaatcgc 240
 cttgcataat atcctccttt ca 262

<210> 56336
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-E3

 <400> 56336

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 gtgcaacgta gacaaagctt gtatcga 87

<210> 56337

<211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-E4

 <400> 56337

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 gttcggcttg cttgtgtcta tcctttcttg tgattgagtt cgactttcag agtttgcaat 120
 gcgacgaaat tcctcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa a 221

<210> 56338
 <211> 138
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-E8

 <400> 56338

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 caccaacaag agccatacgc atatctagaa gacaaaatgc cgggaggagc atcaaccctg 120
 tgaacggcgc cctggggc 138

<210> 56339
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-002-Q1-K1-F3

 <400> 56339

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 gacatgcccc tcgctcaatt tgctgttgct ttcaatggag catcatgggt ggatcctgat 120
 tctgttgac tgatggttat gcaaacaatg cttgggttcat ggaacaagag tgctggtgga 180
 ggaaagcaca tgggttcaga gcttgtgcag agggcagcaa tcaatgacat cgctgagagt 240
 gtaatgggat tcaatacgaa ttacaaggac actgggtcttt ttgggtgtcta tgctgttgct 300
 aaggctgatt gcttgatga tttggctttt gcaattatgc atgagatgag caaatt 356

<210> 56340
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F6

<400> 56340

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ctgacccaaa aaccgacatt ttgggggagc caacttaacg aaatgtttgc acgagagttt 180
agagccctat ggaacttggt tggataaata tgtttattac gttgtagtac ttagctagga 240
acctgcttat gtaagatgat ctttctttta gtaagattaa gaactgtcag cggcctagtt 300
ctgctgcaaaa 310

<210> 56341
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-F8

<400> 56341

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<210> 56342
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-002-Q1-K1-G1

<400> 56342

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gtactcccc cttcatttgg cactgattct gcctgggttg gtgcaaagat gatcagcaac 180
gtgagtactt tcaactgaggc atggtgtgca aagaagaaac aattccgtca gaagacaggc 240
cggagtggta cattgtttgc caattcctgg taatgaaaat ctcagacaca agtcacgagc 300

aagaaactta aagagttccc cgcatcanaa atacggacat aaca

344

<210> 56343

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-G11

<400> 56343

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tgaggctctgg taaacagttg agtttgcatt ttgaataagt agatggccag atatctgcct 240

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<210> 56344

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-002-Q1-K1-H1

<400> 56344

ttcccgggtc gacccacgcg ttcggaaacg ccgtcgtata ctcgagcgtg caggcctt 58

<210> 56345

<211> 134

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-A10

<400> 56345

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gatttttgtgt tgtactaggg attgcttatg ttattatctg aattggtggt ttcttttcaa 120

aananaaaat nnaa 134

<210> 56346

<211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-A11

 <400> 56346

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 gctttagtagt gtccgttttag gcggtgtagt catgggaacg cgacatcaga tacctggttt 120
 cttttgattg tgatgttata ttgcattatt gcacctgtag gattttgttga agctcatatt 180
 ttccagggtt ttggatcttt aaaaa 205

<210> 56347
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A3

 <400> 56347

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 caccaaatgt tcagaccacg cgtccgggtg ctgaagcagg tgcagcccga catcggcata 120
 tcctccaagg ccatgtccat catgaactcc ttcataacg acatctttga gaagctggcc 180
 ggcgaggccg ccaagctggc gcggtacaac aagaagccca ccatcacgtn ccgcgagatc 240
 cagacctccg tgcgcctagt cctccccgga gagctcgcca agcacgccgt c 291

<210> 56348
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A4

 <400> 56348

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 actttttttt ttctancatn ncaanaaaaa aaaaagaaag gactttattt tattactttt 120
 cttccccaac aaaaaaatc ataaaat 147

<210> .56349
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-A9

 <400> 56349

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cagtactatg aaatttctgc caagagcaac tacaactttg agaaaccttt cctgtacctc  120
gcaaggaagc tggctggtga tccgaacctt cactttgttg aagctgttgc tcttaagcct  180
ccggaagtta ccatcgacat ggctatgcag cagcagcatg aagctgagct tgctgcagca  240
gctgcacaac ctcttcctga tgacgatgat gatctgattg agtagaaagg atcatgagtc  300
ttgaacttga gcaggagtgt tgccttgctg gttttaagtt gttctagggt gaactcttga  360
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atggatggta ctccctcgcca tgaattt                                     447
  
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<210> 56350
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-003-Q1-K1-B3

 <400> 56350

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gcaggagcag cgacacggcg agggctctcc tggcgtcctt cttcaacacg gacgtgagga  120
ggtccgagag gatgtacggc cccattccag accccagcaa gcccccgctg tacaggagcg  180
tcagggcccg agacttcacg gcaaagttca acaccatagg actcgatggc cgcgcgctcg  240
accattcag gctctagctg cctggctggc tacgtttcag attcgctcct tcatttgctt  300
tggtctctaa ttaataattc caaataataa gcccgcgga                               339
  
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<210> 56351
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-B6

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cctttcaact acaaaagtac cgcttgcttc ataccaccaa agaatttata aaaggaacct 120
gctgctgaat taatccctct tccctctcaa aaagagctat atctatgggg gggcctaggc 180
tggacceaat catactttct tttcacttca gcagggaagt gaatgcaccc ccagggactc 240
ccatctactt ggccg 255

<210> 56352

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C11

<400> 56352

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cgactcgcat aagactttca atgggaatga ggaatgatgt cgtgtgctca ctgctgaaag 180
ttaaccggac gcgttggcgg acgcgtggtc gggcgcgctc ctctagacga tccaagctga 240
cctgcgcgtg catgcgacgc cagagctctc ttataggagc acctaaattc aatt 294

<210> 56353

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C12

<400> 56353

cggtccggaa ttcccgggtc gaccgcacgc gtgcgtccac gcgtccctac cataat 56

<210> 56354

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-C5

<400> 56354
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 gttcgttgcc ggttactctg aaactaataa ggcggaggat ttggtcatta cctaacggat 120
 gtccttccga ccttaaattt tattggtaca ggtaccccc ctt 163

<210> 56355
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-D4

<400> 56355
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 ctctactccg ctccccctaa ntcctcaatt ggtaggctag cgttaccttc cccccggaaa 120
 acgtaattgg cggtttcgaa ggcggcagcg gcggcggcaa caccggtgac gccgacagag 180
 gggacggtga tcgcatcca cagcctggag gagtggagca tccagatcga ggaggccaac 240
 agcgccaaga agctggtggt gattgacttc actgcaacat ggtgtcctcc gtgccgcgcc 300
 atgggtccaa tttttgctga tatggccaag aagtccecaa atgttgtctt ctgaaagtga 360
 tgtcgatgaa a 371

<210> 56356
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D5

<400> 56356
 gtcgaccgac gcgtccgaaa aaaaaaaaaa aaatataaaa aaaaaaattt tttttaaacc 60
 acaaaatggc cccaattag aaggtttttt ttttatttcc cctcccacc ca 112

<210> 56357
 <211> 229
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-D6

<400> 56357

ttcccaggtc gacccactcg tectcccacc cttccattt attaaaaaaa aaaatttatt 60
taaaaaaaaa aaaaaaaann annaaagaaa gattttttta attaaaaaac cnnccccccc 120
ccctaaaaaa ctccgnttta cctatcaaaa aatcccacct cttttccccc cacaaaaaaaa 180
accggggtcc cttttaaaaa aaccaaattt ccaaccctt cccccaaa 229

<210> 56358
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-D8

<400> 56358

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ggaacacgag atcctggtgt cctcttgctc gtccagatct tcaaccacca gctaaccatc 120
ctttttttta gtgtagccag taattgttat tccgacacgt tctttgtttt gtaatacgac 180
taatctctgt tgtgataaaa 200

<210> 56359
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-E8

<400> 56359

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tccgttgttt ccgcgcctgt tggtcgctg gggacgccg atttttgcac cgagcacgga 120
aatctacaac aaaaacatgg agctacgacg cgactcccaa ggtacaatcg gtaattatgt 180
tcaaacaatt ttttaagtcgt tctgcgctcc ttctattacg agcaacgttt tatattctgt 240
gcttgcataa tgaatcgaag aaatcctgac accaatcgaa ctgaagatcc tgaaacgcac 300
gttaataccg ttgacgtccg cttcaccag ctcgattntc agtcttgtaa tactaatcgc 360

tccatgagtc tgaagtgtgc aaaaatttat gtcgcagcta cacaaattta catgctgggt 420
ctgttcaacc 430

<210> 56360
<211> 68
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-F5

<400> 56360

tcccggtcg acccacgct gcggaattt gccaaaagg gtattaaatt ttttttggtt 60
ttggaaaa 68

<210> 56361
<211> 144
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-G11

<400> 56361

cgttccggaa ncccggtggg acgcacgct ccgggggctc gtttccacac ttttccgctt 60
actcttattc tccagcacia cctacatcgg aagctcttac tttttatcat catctaccct 120
cactaccaac aatccacatc aaat 144

<210> 56362
<211> 69
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-003-Q1-K1-G12

<400> 56362

cgttccggaa ttccgggctg gncgaccac tccccccaca ccttctaaaa aaaaaaattt 60
taattttttt 69

<210> 56363
<211> 158
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-G5

<400> 56363

gggtcgaccc acgcgtgcgg gcctggggct ttgttttgtg ggaattattg accaataaaa 60

tgccatttga aggcattgtg ggtggggagc cggatttgcc tgttgttttc aacaaaaggc 120

gccaaactttt ccttgagaga accccaaga acctgggg 158

<210> 56364

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-003-Q1-K1-G8

<400> 56364

tccggaattc ccgggtcgac ccaagccttc cggcaagtct tgatacaacc atgcatccaa 60

ccgttcatgt ttgctatgga aaac 84

<210> 56365

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-003-Q1-K1-H10

<400> 56365

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ggacatcacg gcagagcggc caccgcagcg gcttgagagc gtcaccgttc gtgctggcgt 120

tgccgtcgac tccatcgagt tcacctatac tgacagcgct gggcagaggc gcgccgctgg 180

gcgttggggg ggacttggcg gcaatgttcg aacgatcgac cttggcaaag ccgaggatgt 240

cagggaagtc tcgggaacat acggcgcat tgaagggtgcc actacgtga cctcgctcag 300

gctcgtcacc agcagcagaa cctggggccc ctggggggtc gagaacggga cgcgtttctt 360

cgtcacggcg cccatcggca gcagcatcgt gggattctat gcgcgggcgg gaac 414

<210> 56366

<211> 120

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-003-Q1-K1-H3
 <400> 56366
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 accaagtcct tcaccttcat tggccccaag gagggggagg aggccaccac ctcttccat 120

<210> 56367
 <211> 208
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-003-Q1-K1-H8
 <400> 56367
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 aacaagccct aactgagatt aatgtgtcct tgctgtaatg tttagccagt cctgccccga 120
 tccggggaac tgagagattg tctttatcgc aacattaacg gctagcgggt agtatcatct 180
 tccagtcacc ttgaatgtta ctagtaca 208

<210> 56368
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-A1
 <400> 56368
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 ccgatgcggc tacctgacca tetgctgatt cttccactag caatgtaaatt gctgatgaca 120
 catatattcc agatggacgt gccatataca agctccaagc ttacgtcagc catatgcgaa 180
 cctataccca ctgcatacac taccctaact atagtctact agacggcatg tacacaatct 240
 ttactgacaa aaccgtgcag t 261

<210> 56369
 <211> 531
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-A10

<400> 56369

actcgggtccg gaattccccg gtcgactcca cgcgtatcgc ggacgcgtgg gcagctcgtc 60

tctctctcct cccagcgcgc agcgtggctc tgggtggcg gcggtgcctg gcagacggcg 120

ctggtgctgc tggctggcgg tggctcggga cgggcgtctg cgagcgggtga gactgcgtgc 180

gaggtgacgt ccgtcgggtgt ggcgcgtgca ctcggttacg ccgatgggct agcgcggcgt 240

cgccactccg cggcagtgt gcagcggggg tgcgtcgtc caacagaccg cgccgtcgtc 300

ggcgtgcgga ctcggtcatgg ccactctgca agctgcctca agagcantgt acgggcccgg 360

ctcggcgggc ggcgtcagtc atggccaacg ccgacaacat tcccggcaag tgcggcgtct 420

ccgtcggcgt gcccattcagc cccaccgtcg actgcaccaa gatcaactga tcgatggaac 480

catagtggag gtagctcgtc cgttggatgc agcgtacgtg gccatcagca g 531

<210> 56370

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-A12

<400> 56370

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cggctctctc agcctcgcag cacaccgtcg gcatccggag tgaccgctgc agcctanggt 120

ttccggcggc gatggcgggt aaggaggagg agggctctgt ggcggccaag acgacggcgg 180

ccaagagcac cgacaaggac aaggacagga agaaggcccc cgtgtcgcgc tcctccccgc 240

ccggccttca gttcccgggt ggtcgcattc accgtcagct caagtcgcgt gccttcgcgc 300

acggtcgcgt cggcgccacc gtcgtcgtct attccgccgt catcctcgag tacctcaccg 360

gcgaggtcct cgagctggcc ggcaacgcca gcaaggacct tcaggtcaag cgca 414

<210> 56371

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-A7

<400> 56371

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tccctgtgcc caagcacggc ttgccttgcg gattatggag acaaaacaag tgcttcgtcg 120
acagaaaggg gcgtgagacc gacgacgatg atgtggagga tatttttagtt tgactcttga 180
gttaggcatg aatttaaccc tcaagctagc tagagaagtt ttttttcctt ttgaaatatt 240
tctttgctcg tctttcttct ggatcaaatt actttggtgg acaagaaa 288

<210> 56372

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B11

<400> 56372

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gaagcctgat ctagataacc cctggcctga gggaggacag aactacacat gtgtataagt 120
tgtagtctac tagcctggtc ttttctttga gttgtgatgc aagtactctt tgaatccatg 180
ttatcaggag catgtcttat gattagctag aggattctct tcggcgacga tgaatatatt 240
tagctagtca ttttaatat gggatgtgtg atactgatgg taatgcccgt agttatcggt 300
cactcagctt atatgttgtg aaatccaatg atctcggcga gatgatcata tgatat 356

<210> 56373

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-B12

<400> 56373

gaatttccgg gtcgaccac gcgtgcggaa aaaccttgct accaaaggca tcgccctgat 60
ggcctaccct tctggtacag tatgcaggcc atgggaacct tagcggctctg aatagtcatg 120
attagctcac tgactcaaca agtgatggtg gtgtaaaatg agattcttgc ctgacggcag 180

ttatcacatt ttgaagacta acaaatatcg ccatctctgg atgtggtatt ctacagggtg 240
 ggggttccaa gtttgactca ccaattaaaa catgcatgtc tggttgtata acaagcaatg 300
 aactccgtat atatac 316

<210> 56374
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-B3
 <400> 56374

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 agggccagtc ccgtggcggg ggcgggtggct gcgggtggcta cggcggcggg cgcggcggct 120
 gcggctatgg tggcggggcg cgtgacggcg gttatggcgg cgggtggcggc tacggcggtc 180
 ggcgcgaggg tgggtggcggc ggctacggag gcgggtggctg ctacggcggg cggcgcgagg 240
 gtggtggtgg cggctacggc ggctgcggcg gctgctggaa ggactgatgt gtggggcccat 300
 cctggcttcg gtcgagttat cttatctatc tatag 335

<210> 56375
 <211> 341
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-004-Q1-K1-B6
 <400> 56375

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 atcattcata tcacatgata tgagataatt taatcagaca atcaagtctt ctatgttcat 180
 aattcgctc ataaaacatg agctactcta ctagtacttg atgcaaatcc actcaaaaata 240
 gatgcatatt ccatcagatc agcatgggta cctgttcctg atcaactcgg atgcttctat 300
 tgctaacgag cattaccaca atgttcacta tattattgta a 341

<210> 56376
 <211> 377
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C10

<400> 56376

gaattcccg gtcgaccgca cgcgtccgcc cacgcgtacg aaatcggcgc atgtgatctc 60

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tgtgaaccca ataataatgc ggtgcgggtg cggccgggaa atcacaggcc gaaccgaact 180

gctgaatgaa agagaccact cacgctgctg ctgtgtcagg tcagcgacga gacttttgc 240

ccagctgccg gggaccatcc aaaaccagcc attatagatc aaatcaagta gagtttaagt 300

gctaggaaat aattcaatgc atggtgtatc tttggtaacg tgacatgaca acaatgcaat 360

gcaacgcggc gggtttc 377

<210> 56377

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C11

<400> 56377

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ctcacaaaaa cattgagaaa cgccttttga gttgcaggta gatgctctat ttataccggt 120

gacaatcgcc tcttctgggt tttagcagtt tgatggctat ctttacttag ctatataatg 180

tatctgagac tgcaaacttt gtgtcactga aactgctcga gggttatatgc taaaaaaaag 240

ctccaactgt caaggaccat acaaaaccag ccattataga tcaaataaag taaaagataa 300

agtgctaaga aataattcaa tgcataaaaa aaaagggggt cccttttcaa ggctccaatg 360

ttacgtaccc gtgcatgcaa cgaaaaaatt tttcattagg gtcacctaa 409

<210> 56378

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C2

<400> 56378

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 ctggaggatg gaaacttaca tacgcgtgca tgccactcta tagctcttct ataatgtcac 120
 ctaactacaa tt 132

<210> 56379
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C6

<400> 56379

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 agattctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggtag 180
 acctatttaa aggatccaag ttaacttact cgacaatgca acgtcatacc ttttcaaaag 240
 tgtcacctaa atcaaattaa ctggccatct tttaaaaacg atttaactgg aaaaaccttg 300
 tcgttaccaa attaaatggc cttgaaacac atcccccttt ctcaaactgc gttaa 355

<210> 56380
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C7

<400> 56380

taaatgcaca tacatatcta ctgatcacac tttcttcgca aacgccccac tcattgcata 60
 tggctctatac caagtagcca cacagctaca aaactattaa ttaactcata ctactgctat 120
 aaatactatt gaataacgaa gaataaacct acctatacgt aatatcacia tactctacac 180
 ttaccttaaa ttgtaccaat ctctgtaaat cattactatc aactgaagca ctttaataac 240
 t 241

<210> 56381
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-C9

<400> 56381

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gggacctatc aatcattcaa tcaagtctgt ccctgggatc tttttgaacc aaaaacgtcc 120
ttataaaaact ggaaaccctg aaaggggttta atagtatatt aatgattttt taattggaat 180
ggtccactga attctttaat aatttgtaat gccaacctaa ttaattgggt tttttggtta 240
atggggccta atatggccca ttccccataa tgaataaaat gtaacttgcc ctaatttttg 300
ggtaaatgtg tgttggtaaa ttagtcatta ggcaactttt taatgctggg attcattaga 360
acaccatgga accttataat tggttgggta atggcaccaa gg 402

<210> 56382

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-D10

<400> 56382

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acagttcctc aacgagtgac ttgcactgtt gttgaagcac aaccaaatac aaaagggcta 120
actgctcaac cacagtataa aaggggtcttg ctggataatg gtcttacagt gcttgcacca 180
ccttttattg aagcgggtga gaatattgta atcagtacag ccgatgattc ttatatgacg 240
agagcgtaag gggatatcgtg gatgacgttt tgttctacca aatgggggatc gattacaatg 300
tggtaccag aataatttta tttaactca gttgtggagt tgccgtaaac agtgaacctt 360
ggcggacacc aacaaaaaac ttttagttct tagctaataa cccacacatt ttgtactcac 420
atgtctnttc ggtttgttcc tcgcttcaaa tattta 456

<210> 56383

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D2

<400> 56383

aagccttgat tctcccccat tacaaatggg tataatcttc ccatgccatt gcataatata 60
 tgatccattg caaacgtaat gcagcattac aagatcacia cagatggcct atgttcattt 120
 accccgagtt ccgtaagga caatgaaaag cgcacctttt taacaaaaaa acttagaata 180
 tcgacggaga tttttctaca caacagcact ggcaatacat aaaccagac 229

<210> 56384
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-D7

<400> 56384

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 cgtatatatt atatgtacca gcggttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaat aaaaaaaaaa aaaaaagggg 180
 aggccgtttt aaaggatcca agcttactta cgattacatg caacgaaata actcttctat 240
 aggggtcaact aaattaaatt caatgacctt ggtttaaaaa cgtgaggact ggaaaaaccc 300
 tgggatatcc aaatttaata ccttt 325

<210> 56385
 <211> 471
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-E10

<400> 56385

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 gaagccggcg gcgaagaagg tggcggagga ggagccctcg gagaaggcgg ctccggcgga 180
 gaaggccccc gcggggaaga agcccaaggc ggagaagcgg ctacctgcgg gcaagtccgc 240
 cggcaaggag ggcggcgaca agaagggtag gaagaaggcg aagaagagcg tggagaccta 300
 caagatctac atcttcaagg tctgaagca ggtgcacccc gacatcggca tctnctccaa 360

ggccatgtcc atcatgaact ccttcatcaa cgacatcttt cagaagctcg ccgcggaggg 420
 cgtcaagctt cgcccgtaga acatgaagcc caccatcacc ttccgcgaga t 471

<210> 56386
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-004-Q1-K1-E11

<400> 56386

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 agcacggatc acgagcaactg aaattctgtc tcagcctgtt ctgccgactg ggtagcttga 120
 attctaaagg ttgatccaag cangagggtga atgtgtgatc gatggttatt ttgcatttct 180
 tctatgttga tgcattgaccg ttcattggaga acgctggtag ttgtgatagc tatcacacac 240
 tcttttgggt aataattaga tactcttttt gttgatcaat gtgaaccttt aatgggtgtt 300
 ataggctctg tcgagttttt aatgcgctat tatgaaaatg ctatgtgctg ctattgatga 360
 ttggacatgt taatggctct atat 384

<210> 56387
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-E5

<400> 56387

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 acggcattgc tagactgtgc cgtggattca acatatcttg tgttgggaatt attgtacatc 120
 gtggcctgta tttcggactt tacgattcta tcaagccagt tctcctcact ggcagcctcc 180
 atgacaactt ctttgccagt tttgctctgg gctggctgat caccaacggg gctgggtcttg 240
 catcttacct cattgatact gtccgcagaa ggatgatgat gacttctggg gaggctgtca 300
 agtacaagag ctctttggac gcattccagc agatcct 337

<210> 56388
 <211> 365

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-004-Q1-K1-E8

 <400> 56388

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 cgacgttgat gatcctgcaa tgttgtaggt gattggggca tttgttggcc ctgctgctga 120
 ccacctatgt ggctgctata cactgtacct gtctatgcat atatgagact ggaacatttg 180
 gcgcataaaa aaaaagtata cataataatg gcaaggcaca ttatacatat ataataataa 240
 gggctgccgt tctaattgat ccaagtttac atacccatcc atgcatactt cttagctatc 300
 atatagtgac ccctaacttc agttcactgg ccatgatttt atagcgtcta gacttgaaaa 360
 accct 365

<210> 56389
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-004-Q1-K1-E9

 <400> 56389

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 cccggtgtga tgccatcagg gtgctttgcg gtctgcctga ccatgtacgc tgaccgcaag 120
 gaagggcatg gtcgcgcac cggtgcctc aagcggttca acactttctc ttgggtgcac 180
 aatgcgatgc tgaagcgcgc gctcgtgaag ctccgagcga agcaccctgg cgcgaggatc 240
 atctatggcg attacttcac gccaatcatc cagttcatac tccagcccaa gaaattcggg 300
 ttttaciaaac aaccaccaag ggcattgtgt ggcgcgctg ggaggggtcc ttacaatttc 360
 aacctgacag cgaagtgcgg tgagcctggg gcctcggctt gcgctgatcc taagacgcac 420
 tggagctggg atggtattca cttgacagaa gccgcgtatc tgcaca 466

<210> 56390
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-004-Q1-K1-F10

<400> 56390

ggaattcccg ggtcgaccca cgcgtgcgca agtgtgttca aattgcacga ctctatttat 60

aggatgatga tgcagtgaat gctgacggtg ttatgaacaa tgcttcattt ttggtcacca 120

acagtcatca tgaggttcta aacttacagt acaaggtctg ttatgcaagg attttggatc 180

tgaaaagaag atttctggaa gctgcacttc gatattatga catttctcaa attgaacaac 240

gcaagattgg agactaagag attgatgaaa atgcacttga gcaagctctt agtgctgctg 300

tgacatgcac aatattgggt ggtgctggtc cacaacgctt ccgtgttctt gctactctgt 360

acaagatga aaaatgctcg aaagtgaaaa tattcccaat actgcaaaaa gtttac 416

<210> 56391

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F11

<400> 56391

cggaattccc ggtcgacccc acgcgtgcgc tcgtatagag aaggagaaat atcctcagtc 60

cctagctacg gatctggatg gcgtagcgtg gctcgtctt ctacatgacc gtcggcggcg 120

ccccggcggg ccggatcgcg atggagctgt acgccaacga ggtgcccaag accgcggaga 180

acttacgggc gctgtgcacg ggctagaagg gcgtgtgcaa atacgggaag ccgctccact 240

acaaggactg cacattacac cgtgtcatcc ctagttcat gtgc 284

<210> 56392

<211> 481

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F12

<400> 56392

cggaattccc ggtcgacccc acgcgtgcgg ttacattcct tggttacagt cagcaagatg 60

gcaaaaacat actagtgtat gagttcatgc ataatgggac actaaaagag caccttgggtg 120

gagctgataa tgaaaagata actagctggc tgaagcgtct cgagattgca gaagattctg 180

cgaaaggat agagtatctc cacacgggat gtcceccaac aatcatccat agagacctga 240

agagcagtaa cattctccta gacaagaaca tgagagcaaa agtggcagac tttgggcttt 300
cgaaacctgc agtggatggg tctcatgtgt caagtatagt tcgagggaca gttggatacc 360
tggaccaga gtactacatc tcgcagcagc tgacggagaa gagcgacatc tacagcttcg 420
gcgtgatttt gctggagctc atctctgggc atgaacccat ctcgaatgac aactttgggc 480
t 481

<210> 56393
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-F2

<400> 56393

gttcaaccgt gagcttgtgc tagaagtttt ctttgcacgc aacaaggacg aagagcttac 60
agccaactac cttctggatc atggccatga gtttgacgag cagcagcaat agacgtgggg 120
tggatggagg aaaccgaggc agttgcagaa cagcgagtgt cgttcttatg ctatgctgct 180
gactatcttt tatttccata tatatttgtt cggaatgctt tctaagtaca tattaattca 240
atatcaagcg ttacaccgtg tatgaaagcc tgtcaaatcg tggcctttgg tttggagggg 300
aggattcgat tgctca 316

<210> 56394
<211> 498
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G10

<400> 56394

cggaattccc gggctgaccc acgcgtgccc ggacgcgtgg gcggacgcgt gggctggacc 60
acagatgaga taaaagcact aaggacgagg ttctcaggtgt caaaaagagt ccaaaatgag 120
gaagttccca tggcagagga agctctggcg atgatatcac aatcatttag gcaggctcgtt 180
cttgatgtga aagttggacc cccttcattt gagaaagggt tagctgagga tattttgtct 240
cttctcagga gaacaaattg caagaattgt cttgtctggg caaaaagtga tgatatagga 300
agagagataa ttaaattgtc taaagatgtt attgttggct atgttgtcat ggtggataaa 360

tttaccaata gaagaacgga gttagtgagg attgaaaggg ctaaagttgc tggcatatat 420
catcctttga tccatgagaa agttatgaag gtcatgcgca tgcatgacaa gagagttttt 480
gcatggactt gtgatgat 498

<210> 56395
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G11

<400> 56395

ctctccggaa ttcccgggtc gaccacgcg tgcgcactaa caccagctaa cacctctttc 60
tctcctgcaa taat 74

<210> 56396
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G12

<400> 56396

attcccgggt cgaccactc gtcctctgac tcgtggtctg actcgtgtta aaaaaaaaaa 60
ataaaaataaa atcactaaaa aaaaggataa aaggaaaatt taaaaataaa aaaaaaatca 120
aacactctat actatccaag cttacacact cttccatcca acgtcttacc ttttctatat 180
tgccaccaa tttcaattca cttccctcct ttccacaact ttctcactgt t 231

<210> 56397
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G4

<400> 56397

ggaattcccc ggtcgacca cgcgtgcggc aaaccctagc cgacatatct cacgatccac 60
tcgagcacca agccgagggg aggtgaagag cgatggggcg cggcgtggtg tcggcgaatg 120
gcggcacgcy tcgcgggcaa gaagaagggg tcggattcct tgacgatcga ctgcacctag 180

ccagtggagg acatgatcat ggaggtegcc tagctcgaga agtgccctgca agagcgcac 240
 actgtcgcct ggggctaagc tggctacctc ggtgactccg tcaccatctc tcgcgagaag 300
 accaatgtca ccgtcacctc tgaccgaecc ttatcctaga ggtacctgac gtactcgacc 360
 cttaggtact tgtgtacaca caacgtgcgg gattggcttc tc 402

<210> 56398
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-G5

<400> 56398

ctgtccacaa cagggctttt tgcagagatt cagtacataa ggattcttca aattaaccat 60
 accacaccat aacatgggac atttgcgaaa ctacgggtac aggtatcaaa atgcaacgag 120
 ttcaatacta aaatataagc gtagtgcaat ctaatcttct cagcaaattc ccaattcctc 180
 cgagtctgag cgaccatgtc ggggcgtggc aagggcggga agggctctggg caaaggcggc 240
 gccaaagcgtc accgcaaggt tctccgggac aacatccagg gcatcacga 289

<210> 56399
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H10

<400> 56399

aattcccgtc tcgaccacg cgttcgaaaa cacatacggc ctcttgcaaa atcactttat 60
 catatgtctc caagacttta ttcacggaat cgcgacaatt taaccttact tcctagaagc 120
 atcaacgttc ctcatgccct tcaagctcta gtttcacat aggacgcttc acatgaatag 180
 caaaccttac attgattgct gctactctta caaccatctc gactatatca actaactaat 240

<210> 56400
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H11

<400> 56400

cgtactcgct ccggaattcc cgggtcgacc cactcgttcg tccactcgta tggccactca 60
tgccggagatt tataataaac acgcacgaag tctctcgtgg ggtaagcatt gtactgaatg 120
ttctcactta acgcaccttt gaatgtatat ctgcacatct ttcatagtgt gcacactata 180
atcaagcaag acatcattat cttctgaggt tttacattta atttcagaat tacttgaaca 240
atactcacac catatcacat atcatag 267

<210> 56401

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-004-Q1-K1-H5

<400> 56401

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ggaagagctc cgcagaaagg agcgacactt gggagaaatg aacaggcaac tcaaacacaa 120
gcttgaagct gaaggttgta gcaactacag aaccctgcag catgcagcct ggccagctcc 180
cggcagcacc atggtggagc atgacggcgc cacctatcat gtgcatcaa ctgctcaatc 240
ggttgcaatg gactgtgaac ccactctgca aatcggttac cctcctcatc accagtttct 300
gccttccgag gcaagcaata atatcccaag gagccccctt ggaggcgaga acaacttcat 360
gctgggatgg gttctttgag tttctctngt aatcatccat ccatcagaat gatgtccaaa 420
caataaaggc actcaatgct accatatgca tatncattgc taaat 465

<210> 56402

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-004-Q1-K1-H9

<400> 56402

ttcccgggcc gaccgacgcg ttcgcccacg cgttcgggct cttggagatc acggtatcat 60
atgcttgga gacgttgtgc acgggatcgc cgctgttggg ccgcacttcc gagaagcatc 120

gaggttcctc atgcccttca ggctcaagtg tccagagagg aggctgcaga tgaagaggaa 180
accctacaag gatggctgct actcgggcga ccgtcgcgac aagatcaacg aactaatcga 240
gaagctgaac tagaagcgca aaccttgctt actacagctg tcgctttgcg ttggagcgat 300
agatctgtta ttacctgtgc ggttttgtaa tagcatcagc tgggtgtacc ttcagctttg 360
aaaccttaca tgcgcttggt cgatcaagtc atgaaatagc aggcgcttat ttggtcatac 420
ccttgcgctt tgcttcacat gcctcttagg gaggtgcgac aatatatcag ctggagtatg 480
aatgatgtaa 490

<210> 56403

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A11

<400> 56403

tccggaattg acccacgcgt ccgaaaaaaaa aaaaaaaaaat aaaaaaaaaa agttcaaaaa 60
attaaaaaaaa aaaaaaaaaat aaccatggaa ctgaccatat aactcaggtc aaactatcgc 120
acgcatacct ccgaatccca ttctctata tcttgcaacc taacttcaat caacttgcca 180
tgctaacca atatacaact ctcataaacc cctcacaatt cccaacttaa tcgaatctcg 240
ctgaataccc catttaccaa ttttccctt 269

<210> 56404

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A12

<400> 56404

ggaattcccc ggctcgaccga cgcgtccgtg ggagtctacc acaccgtctt cgactatggc 60
aagctgaggg ttggcttcgc agagtcgtgc tagggatatg gtttggcagc aaccctcca 120
gaggcaaacg cgtaatttgt gtgtttatgc gaccggcgat gtgtgtatat atgctactac 180
atgttttagtg atgctttccg agacctgaga caacgcccgt ctgttttaac gtggcgcaag 240
aataattctg gttctggatg taaaaaaaaa attaacaaat aagataccaa agtaaattac 300

<210> 56405
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-A4

<400> 56405

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gagtctcttg tacaacgaat gtcactatcg taaggggata tcagggttgag ataagagcaa 120
ctttcctagt tcgtcgtcgc cttgactgct gacccatattg agcttctcta ccacctaggt 180
catgccc 187

<210> 56406
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B11

<400> 56406

attctggggtc gacccacgcg tgcgcccacg cgtccgtata attgtaaggt ttgcagggtac 60
agtgcctgca aagggttggtc tgcgagctta caggcgcttt cagggaaggt gggctgtgca 120
accgaaatgg aaccttctca tacaaggatc atttgcgaga gtgtcagact cctgtccttg 180
cattggctgg agataaagac ctaatctgcc ctccagatgc tgtttatgaa actgtgaaac 240
tcattccgaa tcacaagggtg gactatagag tgtttggaag gccacaaggc ccgcattatg 300
cacattatga ctgggttgga agccgactgg cgatcaatga ggtgtatcca tgtatcatag 360
agttcctctc tcgtcatgat gggtattgat ttgattatat gatgctaata cagagtaact 420
tacaacacca tgttcatctt aaagggtttt t 451

<210> 56407
<211> 336
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-B12

<400> 56407

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tgaatattac agtcgtgaaa ggtactaagt ttncggttag agacatgctg gcaagtgatc 120
catatgttgt tttaacactc ggagggcaga aagctcaatc gacagttaaa aaaagtgatc 180
ttaatccggt atggaatgaa gtgcttaaga tttctgntcc tcgaaattac ggacctctaa 240
aacngaagtg tatgaccatg atacgttctc agccgatgat atcatgggtg aagcagagat 300
agatctccaa ccaatgatca cagccgccat ggcctt 336

<210> 56408

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B4

<400> 56408

cgtacataga gttctccata ccattgttca tgagcagggc tccctcgaca gttctaaggg 60
ggagagcttc gtgaagaatc tggaaatgga gggcagatat ctgagggatg tgtggtaaag 120
agcgattgga tgaacattcg ttcgtattac acacgtgtac aactactacc ggaagagcac 180
tgacaatgga ctagatctga tattttttatt gcttctatat ttatttttat tttcttttgc 240
ttcgttctct tcaagagctc tttgctttct ttgcggttct cccaagagtt ctttgtacct 300
atgtattaca aattctttat atgtataaga tgaggacaat tttggcaaataaaaaa 360
tttatatatt caattaattt ttaaattttt t 391

<210> 56409

<211> 204

<212> DNA

<213> Zea mays

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<400> 56409

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catttatagg atgttccatg accttcttgt acccgagaat cgctcgtgtg gccatagaca 120
tctccatcac ttattctgta tggaaggcta agaattggaac tgacgcatgc aaagcctgta 180

cttctaccaa caaacctggt acta

204

<210> 56410

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-B9

<400> 56410

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atattcatca tcttacaagg ctaacggggc ttttgaacag ggccactaaa accagacaac 120

atcaccataa actaaaaaaaa ttcatatgtc caaacagatc atacatattc cttttaactc 180

ttctaaaaaa aatctctaata cttctaaaac aaccccat acaaaaacat acttttaacc 240

ccaagtccaa attaagactt ttacttaaac atgtaacaca actagtgcct cttaacatac 300

tccatcacta tattcttcta catataacta agacacttta aatgatccaa atttacttac 360

tcatgcatac caaaatataa ctcttatata tttataccta aaatcaattc actttc 416

<210> 56411

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C10

<400> 56411

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taaaattgga ctcagaatgg ttcaaatgg agacataatt ctaaataaag tatttgtccc 120

tgaggaagac agattaacag gcatcaattc atttcaggat ataaacaagg tcctcgctat 180

gtctcgaatt atggtggcat ggcaaccaat aggcataatca atgggagttt atgacatctg 240

ccatcggtat ttgaaagaaa gaaagcaatt tggagctcca ctggcagctt ttcagctcaa 300

tcaagaaaag cttgtccgca tgcttgcaa cattcaggct atgcttctcg ttggatggcg 360

actgtgcaag ctgtatgagt caggcaaaat gacaccaggc cggcttagtt taggcaaggc 420

atggacgttc aagaaggcca aggaagtggg ttctcttggg cgagagctac 470

<210> 56412
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C12

<400> 56412

ccgctccgga attccccgggt cgaccgacgc gtccgcccac gcgtccgaat gctacttgat 60
cagctctttg acctcaaaag caaggaacaa gaatggctgg atctcaataa agacctaaagg 120
aagcagctgc aagaaacaag gccagagAAC gcgctccgtg tctcctggga ggaagggtggg 180
cacagtggcg caagtgggaa tgttcttgat ccttatcagg ggctccttca gcacctggac 240
aacgatacct cctgcagtt cgggtaccat catcaagcct acatggatca gctgaacaac 300
gaggacctgg tggacccgaa tgagcatggt cgatctggat ggatatgaaa tgctctgatg 360
acccaaaata aagttgatgc acagcagggg ttcaccctgc aggacgcgag actatgtatt 420
gaagctaaga cctcgtgtgt gttgtgttgt gtgcgaagct tggaacttta taaatcg 477

<210> 56413
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C4

<400> 56413

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gcttctcgac tccgaacact catatcgaca ccgatctctt atctcagggc tcaagagaga 120
gcatgcacac ttctacatc ataacgttca acaagatcta cacatgacta tcgatcacct 180
catgctctcc gacgctaaca aatgatctgg ctgggacacg aaccatccta attatatcat 240
atctatatac ct 252

<210> 56414
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C5

<400> 56414

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aagcctgcat agaatgcggc atcaggagat gccattgttc tgaatactaa ggctattcag 120
gatgaaggct gttgagaaga gcaagggaga aagaaagggc atcttctaca agttgtctgt 180
attagacgca gtattactac gtagtgtcat ggcacattga ctgtatctgt tacctatgtt 240
atcgcggtac atgtatgtag aagg 264

<210> 56415
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-C9

<400> 56415

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ggaacggctc gaatgagtag aattctctga ggggttcata acttgcgga gatcgtattg 120
atggacatat gaaaccagca ggaccctatt tgcacagctg gtatcgtttt aaaagatgaa 180
gtactaagaa gctttattta cctgaggcaa cttgagctta ctccgaccct ttggtgtgga 240
gtgcatgtca gaaacaggat tatgaatgct gtgttcagtg cttttcacia attgttgtat 300
tttcaccaga acaatttccc tcaattggaa gtgaagaaat ccataacgat ctataagtta 360
tttgatctta aa 372

<210> 56416
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-005-Q1-K1-D1

<400> 56416

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aagcaagcgt cgcacccgcc ccgatttggga ttccgaggac gaatacaaca tccccgccgg 120
actagcgatc accgtacctn ctgtgcctcg aggtggagcc cgccgtctgc gactcgcgca 180
gaccacatct aacgcgtgtg ggcgtcgtcc ggctcacggg caaacacccc tttaacttag 240

aaccttcggt gtcgtggctg atggcgcacg acttcatcac cccggcaccg caccactacc 300
 actactggaa aaatatcggc tagaaaccga agttcttact ctaatagatc aacgttctta 360
 tgtaaagctt gtttcgatag gtcttatcta atacctgtaa tgtacaatgg gcagtttgat 420
 gttcataatg 430

<210> 56417

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D11

<400> 56417

gaattcccg gggaaatatt ctgtagctgg actcacaaga ctgacctttt ccaaaggatc 60
 aagaggaaaa ctggaattcc ctacaaatgc atgctgttct ttgatgacga gaacaggaat 120
 attgaagcag tatcaaaaat gggagtgacg agtgtttttag tagagaacgg tgtgaacctt 180
 gacatgttta agctgggtct cagtaacttt gcaactaact gtgctgccta cagcagaaaag 240
 gatgatgaat aacctcgagg agaagtgata catataagat aataccttca aaacactgta 300
 ctccaattca ttgtcatc 318

<210> 56418

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D12

<400> 56418

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 agctgggtat aatcggttcg aatagtcggt gtcctcgggt catggagact caactcactg 120
 accactcatc gtagtttata agtgaaataa gaatttgggg aaaagaaagc tagaccagga 180
 ctagtgaatg ctttagatca agcaaatcta gattcaggaa aagtacttaa cttgtgaagt 240
 aaaattttgg cataaggatt cactactagt aagctcttcc gcaaaatgag tctttgaaat 300
 ttgataagcc ttaccttgat tcccgacaag tcagcatacc cttgagagtc ttttcttttag 360
 tcgggtaagt cttgctgagt aattccatac tcagggtctt attccctggt gtacattagg 420

ttatagtact gctctgttgt ggatgggtgct aagtgccggt gggct

465

<210> 56419

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-D6

<400> 56419

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gacgggtcct gcactaccaa cgctatggtc tctcacaact ctgacttcaa ggaacttctg 120

aatggcgaca aggagggcct tattaagctc ccaagtgaca aagccctgct gagccaccct 180

gtcttccgcc ctcttgtgca gaaatatgct gacgatgaca aggcattctt tgatgactac 240

cacgaggcgc acctcaggct ctccctactg gggatcctg atgcttaaag gctccatata 300

caggagcgcg acacaaactg ctgcctgtat ggacacttgc gattcatgat gaaccatcag 360

attgcctatt gtcgcctttg taataaaggc atatgctctt agaacttcga ctatggctga 420

atctgaaccc atttt 435

<210> 56420

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-E11

<400> 56420

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gtccggacca gaatcgcatt tgcaatctag tagatgtctt ctaccggcac tatatatttc 120

cttttgtttg atgtgtaatg atgttactgt tcaacgctta ttaccctact atactgttgg 180

atgttctttg gacctaaaaa aaaaacaatt acaaattcaa ttattatatg taataattca 240

ttaaaaaatgc atacaaataa gaaaaaatac agaatgtctt ttggagcaac aaaaaatttt 300

gtaaatgagt aaacaaaaaa aaaggggagg cccttttttag ggtccaacat tttct 355

<210> 56421

<211> 350

<212> DNA

<213> Zea mays

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<400> 56421

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agggtatgtg gtgcagtggg tctttcctgt agttacaagt cttcgttgcc actatgagtg 180
gatactgtag cgaatgaacc aagacgaaat gatgctatgt taacttaacg tctgtggttg 240
ccttgaactc tggaaccgta atgctagcat ggttggttgg tgcgctaaaa aaaaaaaaaa 300
aataaaataa aaaaaaata aaaaaaaaaa aataaaatat aaagaaaaat 350

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<210> 56422

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F11

<400> 56422

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aatggaccgt cggccaaatt caatgcctc taggtaccac accggcgacg gcgtcttcgg 180
caaggcttgt agcagtagct catgcaggta gtgatgacaa gggactgtta gcgaagaatg 240
tcgacagcgg ccaatggtca tgtaaattgt tcatcgata gaagtgaag tgacaattag 300
ccacggtttt gtaattctga gctaggatta gctattggga ccctgtaatt cgtctgggca 360
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<210> 56423

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-F7

<400> 56423

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cttttaaaga

70

<210> 56424
<211> 261
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 56424

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cgtattgcgt tgggtgctgt acgagggcat cacttggtgt tctatgcccc cttccctact 120
agattttctt ttctaccctg ngcctggaga gatgtttctg tcatgactgt cattgtggat 180
ctcgcgatat tgttatattg aagctnttgt gcttggtcaa gaaaagaaaa tgttggtgcg 240
ataaaaaaaaa aaaataanaa t 261

<210> 56425
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-G5

<400> 56425

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ttacagcaac gacctgatat caactaaaca gagcaatgtc agagacattg tcaactaaac 180
agcaccagca gcataagatg aaactgtctt tgaagagata tgggtggtctg ctgaagaaga 240
aaagcgaaaa ttagcataag aaccatttga tcatatgctt tggtctattc tttgatgcat 300
atttctttgg cgagccatct atttcccaag tcttcacata tggtatggaa agcaaataaa 360
ggatgcttca atgaagaatt cagaatg 387

<210> 56426
<211> 378
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-005-Q1-K1-G7

<400> 56426

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caatcaggca tgggatgccc tgttgatatac tctggcaaag ggcatgcttc cttttgtgaa 180
aaacatccat gtagttttct caaggaatcg caatgtgttc tgtggaacac atatgttgta 240
gtcaaactcg ggttactcag cttgtaaaac tagcctnctc ttgcttcctg gttactgggc 300
tttggatact ctcaggcttc gacttgtgtg ttgctgttaa atatgtataa gaaacttcta 360
ctcaggttga tctgtgaa 378

<210> 56427

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H6

<400> 56427

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ggttgggcgg aaacctggcc gggactcggg agcatttgca ttttcttggc gtggtagctt 180
ttgatacggg gaagtcaactg actcgtggag tgatgttgct caataatcag aaccttgctc 240
taatacagcc gctgagacat cagctaaggc gaataaggga aggatgagtc aaaaaaaaaa 300
aactaaaagg taaag 315

<210> 56428

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-005-Q1-K1-H7

<400> 56428

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tatcgctcgtg atagcagtgga attttaacta acagctcaag gcaggctagc agaatagaaa 180
aatataatat ggatgcatgt cttgttttc 208

<210> 56429
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-A8

<400> 56429

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cgccgccgca cggagcgacg gctctgtttc gtttcctcgt acttttaggc cagtgcata 120
aggttgctcg aggaacaatg tactgtggaa atttctaata tattccaaat tgtgctgat 179

<210> 56430
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-B3

<400> 56430

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ctaaattcaa tt 72

<210> 56431
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-C2

<400> 56431

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ttttgagatg gttttctgtc gataccaatc agctgggcct gaaaaatgat gtcctccgca 180
tcgatagcgg caagcgcata aatctgatag tccaaggctc acatgactca tgacacattt 240
gacacactgc aagctacttt ttgtatggct taagtttaca agctctgtaa agtgttttca 300

cctgtactga agagtttcta gcagatatac gaggggtggag gcaagagaac tcaactcaga 360
tcttgctect agtgcaagat caatcctccc ccgtcatga 399

<210> 56432
<211> 73
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-006-Q1-K1-D12

<400> 56432

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nnnnnnnaaaa ana 73

<210> 56433
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-D7

<400> 56433

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gaaaaggaga aagggaagga tcgatcaagg agagatgaaa tggagtttga tgggtgctgat 120
ttgaacaccc atggtgcaaa agataagaaa agagataaag ataaagaaaa gaaacataag 180
agacgtcacc atgacacaga tgatgtaagc tctgagaggg atgataaaga cgatgctaag 240
aagtctcgga ggcatagcag tgatcgcaag aaatctagga agcatgcaca tggctcagat 300
tcagatagtg aaaaccggca c 321

<210> 56434
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-E4

<400> 56434

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atgagcgggtg gtgtattgta attgtaaaga gggctgaaag aaaggtccct ctggttgggc 120

gtgtcaccaa agagtggccc tagaggcaaa ccttacgttt gctcgttgcc cttgggtgtgt 180
 acccagatgt gtatcgatga cataggctgg ctgctgtatc atcatcaggg ttgacgctga 240
 aaaaaaaaaa aaaaaaaaaaag ggcgggtctct ctagaggatc catgcttact tacgcgtgca 300
 tgctactata tagctttttt atagtttcac ctaaatttaa tt 342

<210> 56435
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-E5

<400> 56435

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 ttcagtaggc catttttcat gggtctagtt gtatttgaat ccagcgtttg ccactaagat 120
 aaatcagaca ttcgttttgt gaacctatta tgatggagct ttatttgctg ataatatcta 180
 aa 182

<210> 56436
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F10

<400> 56436

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 accaaggccg tcaccaagtt caccttcttc taggcttgca cgctcgccct ttgtaggctt 180
 ctcttggggt gatgttcccc ttgagttgta actagatgtt gcttggttat ttgtcggcgc 240
 tgctcttctt ttgtaagaac tgcgtcatgt aaccaccaa g 281

<210> 56437
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-F5

<400> 56437

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aaaaaaaaaa gggggaaagg a 81

<210> 56438

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-G1

<400> 56438

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acatgaaaga aggcaggga aaataaaaaa accca 95

<210> 56439

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-006-Q1-K1-G8

<400> 56439

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cgattgggca tcttaaacad ccctatttgt aggatgaaac tcagaactgg tggctaccaa 120

taaagtgctg ttttttttc 139

<210> 56440

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A10

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ctttgtctgc attcaaagga ttcattctatt gatgtcacia gcctatgaaa actggcgagt 120

gtgaatcctg atctacgact ccctgcgac ataatcctgt gactgctggt tagtgtcaaa 180

tgcagtctgt taaacttctt gatgcgggtca ctaatacaag ttcataaaaa aaaaaaacia 240

aaaaaaaaa caaaaaaaaa aaaaataaaa aaaaaacaaa aaactaaaaa aacaaaaaga 300
caactaaaaa c 311

<210> 56441
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A3

<400> 56441

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cagtaagtac tttaaactcg cagcatgcac attccagtcc ttgtgtatac tatcattact 180
ttatagcttg ttgcatggac taagcactta agataaaaaa ttacgatggc ttatctgaag 240
aatttgatgt gttcaaggaa aaagaagaat ttgatgtggt gtgcattttg aaaagacata 300
tttcatgcag tgcttatcaa gagcccttcg ggatgagaat ccaaaatttc tgatggcagc 360
atcaaccttg ctctaccat ttcaaccctt gatggtttca gctgtccaca ccggggataat 420
ggagggttca tttgctaaac gagcatcaat agat 454

<210> 56442
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-A6

<400> 56442

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agtctgttta acattcgatt tcacttgctc caaacgaaaa atgcgatcca atgttcgtgc 180
gatttctgtg taaaactggt atacttttaa ctgtcctcaa ctatccattt ttttatatat 240
aatgtcttgg tgttaaaaaa aaaaaagggc agaagatata aaggaacc 288

<210> 56443
<211> 256

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-C6
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 tactactacc agtctaccag atcgatgttg accttggtggc agttgctgca gttttttttt 180
 tttgacagag aaatctgtac cttatgctgt gtgtgttttag aataagaaaa tttttctcca 240
 aaaaaaaaaa tcgaac 256

<210> 56444
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-C7
 <400> 56444
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 aaaaaaaaaa aaaaaataac aaaaagaaaa aaaataaaaa atataaccat ataaaaaaaaat 120
 aaaatccata aaaaaataaa cataaacact actactaacc tatctaccaa atcaatatat 180
 atccttatat caattgctgc aatTTTTTTT ttttgacata catatctgta ctttatgcat 240
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 tcttttatat ggcacccgtt ttaaaggatc caagcttacc tacgcgttct ttctacatct 360
 tatctcttct atattgtcac cttattttta ttcactttcc atcgttttac aacgtcttta 420
 ctgtgaaaac cttttcttta cctatcttaa ttttttttca ttacattctc cttt 474

<210> 56445
 <211> 261
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-007-Q1-K1-C8
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gcagcaggca tactggtgct ggaagacggt acctgctgtc gcacttgccg ttataatagg 120
cattggaact tgtcgatttc gggagctgat ctgtttgtac cgtattgttt atttataata 180
tgatggatcg tatgttgata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaactac 240
aaaaaacaaa aacaacacaa a 261

<210> 56446
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-C9

<400> 56446

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gccgcaccct ctacggattt ggcggctgag gggtcagggg tgtccgccag ctgctgctgg 180
tcgtggcaga agtcttgggt cgcggtcacg aaatggagtg attcgagagt attcttgccc 240
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tacgacttgt actgcatttc tttgttctga acctctaaat atgatgaaat gtggattcac 360
tggatctcac agacaaccag tt 382

<210> 56447
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D1

<400> 56447

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aagacgagac tctctctctc ctgccactgc taccgctgct cctctcaact ggtgaactgg 180
atcctgattt ggggagaagg ttaaactgga tgcctatgta attaattgca tctctttacc 240
attctacgta ctactagtat tgaagtaaaa aaaaaaaaaa aaaataaaat aaaaaaaaaa 300
ataaataaaa aaaaaaaaaa ataaaaaaaa aataaaaaaaaa aaaaaataa taaaatcata 360

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380

<210> 56448

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D12

<400> 56448

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tttgaccaag gctaagcgat accttgagga tggtattgct cacaagcagg caattccctt 180
ccggagatac tgtgggggtg ttggtcgcac cgcgcaagct aagtcgcgcc actccaatgg 240
gcagggccgc tggcccggtta aatcagccag gttcattctg gatttgcttg agaatgctga 300
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<210> 56449

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D2

<400> 56449

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gacgcgtggg ttgcgcttgc ataaatgtgg ccgtaatgtt acatgccctg aacttgtagg 120
gaggtgttca attgtgcgtg agcttcatgt ctatggaact gcagtccctg tgcattggccg 180
cgatgtggac aaactgcac accagggata ctgaactcta ttaatggaag aagcaciaag 240
gattgctcga aaggagcacc gatcgaagaa attagctgtc atttcggggg ttggtactcg 300
ccactactac cgcaagttgg gttatgagct agaaaggccc tacatgggta aatgtttggc 360
gtaatgctat ttcattttcc gtatcatata gagcatactt ttgtttgtaa tgtata 416

<210> 56450

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D3

<400> 56450

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caaccgacc gtctaggtgg acgtgggcct tagcgacggc agctacgca ggggggccgt 120
accagcggc gcatccactg gaatatatga ggccttgag ttgagggatg gaggatctga 180
ttatcttggc ctcccgtcc atgcattcca agattctgtc ctccccctcc ctccccccat 240
gttgtaggct ggtagtggtc aaattagttg gccctgggtc catttggtact gatgtattgt 300
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<210> 56451

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-007-Q1-K1-D5

<400> 56451

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ttgctcctca ttgttttaag tgaaagggcg ccaactattc aaaatttact ctaggtagat 180
aattttcatt gtcgagtttt attttggtat atgtaacttt ttgtaattgg gcctaagcgt 240
attggagcac tctaagttaa cagggtgcttg aagctgatga tgaaattata cagcttggat 300
gaataaacct ttgtttagt gacataagga gtttcgaaat tacaaggaat tttaaaaaaa 360
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<210> 56452

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-D6

<400> 56452

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 ggtcaaactg ccatacttca tagctttttg ctctcattg ttttaagtga aagggctcca 180
 actattcaaa atttactcta ggtagataat tttcattgac gagttttatt ttggtatatg 240
 taactttttg taattgggcc taaccgtatt gtagcactct aatttaacat gtgctataag 300
 ctgatgatga aattatacag cttggatgaa taaaccttta ctgtagttac atatagagtt 360
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<210> 56453
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E1

<400> 56453
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 actgtcagac atgctgctga aatgggatga tggataccgc gacacattgc ttactgat 180
 acacatacat gctgtactga atctgctgag ccaaatacaga agcagatgat tacaagctgg 240
 tagctaggac atgagcacc tttgtggggg attcttttat ggtcctattt gattgtatgt 300
 atacttatag gaatgaaggc aaacacacct aagcagcatg tgtgatattc ccatgtgcta 360
 ataaagaaaa tggcttggt 379

<210> 56454
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E2

<400> 56454
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 taagagtgtc ataccatgcg tgccatacaa actacaggta cattcatata tagcataact 120
 tacagcacat gatacaagct acagagcacg gtcaatctta aatatataaa aaagacaata 180
 ttgaaggctc tgatgatgga gagaaaccag ggcaggcttt ccccgcaaata acggagaagc 240

tacttccaac cagtgcctt gtgaccggac gcgtggggtt acggacatgt acccaaacgt 300
 gatccagttt tagttaatgt gctccatgct tgacgtttta aaaaaaaatt tttttttt 358

<210> 56455
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-E7

<400> 56455

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 tttttaatat tttttttttt tttttattat tttttttaat ttttttatat ttttttatat 120
 tttaaaaaaa aagctgatca aagtttaaaa aaaaatatta gaaaaaaata aaaataaagg 180
 ttaaatacatt tatcaaaaaa aaaggtttat aatttgatga aaaaaaaata aatatgattc 240
 aactatctgg aaaactttta aagaaaaata ggtatgactt agaatag 287

<210> 56456
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F11

<400> 56456

tgcgccacgc gtccgggaat cccggccatc caagccagag ccaaggcaga gaagaagaag 60
 aagaggagga agaagaagca tcggcagcat gtcggagggg actgccaaact gcgtggacat 120
 cctgatcgcc atcatcctgc ctccgctggg ggtgttcttc aagtacgggt gcggccacga 180
 gttctggatc tgctctctcc tcaccttact cggctacatc cccggcatca tctacgcat 240
 ctacgccatc accaagaaca actagctagt catccttgcc gacgacgatc catgtctctg 300
 catctgcgtc tgttcatatg cctgatgccg acttggtgctg tatgtaattg cttgaattca 360
 gtcgtgtttt gctaccgtac ccactccatg catcatc 397

<210> 56457
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-F8

<400> 56457

gaattcccg gtcgaccac tcgtccgcc actcgtccta aaaaaattaa aaaaattata 60
aaaaaaaaa aaaatataga aaatagtga aatttataat tttcattagc ataatggac 120
actcattctt catgttccaa tcttccttac tctaccttcc taggcatag tttttcattt 180
actgtcactt aaattcaatt cactgtcctc aactttatac cttctcatct gttaaaactt 240
ttgccttcct tatttatatc gtattggccc acatccatct ttcttcatat cttttactct 300
catctattcc cgaatagatc gccttttcta acatttct 338

<210> 56458

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-G6

<400> 56458

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cagggatgac caaactgtgc tacaacggac ggaccggaag aagctgaacg tgaaatccat 120
tgtgaagacc ctctgaagt gagtgcacca ccgtgttgaa gtgcagtctg cccaaagtct 180
gttatctatt gtatccccag tgaccttctg catctcatg ttggacgtcg tcgtgtattt 240
gtaactgtcg gagttgcaac aaaacttgtg tgcttgctgc aacgtgtgcc gtcttgctct 300
aataatgcac tatctgc 317

<210> 56459

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-007-Q1-K1-H5

<400> 56459

cacgggcgta ccgtcgacaa tatctactct cactagccac gccctatcct gggcataaag 60
gataccgatt ggtgctatca tggagtcgag acttaccag acgctgcacg cgaaacctgc 120
tgacgactgc atcaccttcc atcagaccct cctacactaa tacattgcaa ttcctaaatc 180

ctaaggactg gtaccaacat ctcattacat tctacaattg actctatgct agttagcgat 240
ttaagatctt acgatctcta gaaaacagtt tagaatctta cataccaacg acc 293

<210> 56460
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A3

<400> 56460

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aaaaaaaaaa aaaataaaaa aaataaggac ccgtttacaa agggtaatgg taaaaactaa 120
tttataaaat ctaaaattta tgtttgcaaa aaagtactaa aaaaaacaa aataaataaa 180
aacaaaatct tagaacttaa aaatgactca ctatctaaag gttcaaagtt taatctcaca 240
tcatttacia tgaaaacctc ttttatctgg agacctaaat taaaatcatt gtccttcatt 300
ttaa 304

<210> 56461
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A6

<400> 56461

gtgtagaatc tatatttgga agacaagtgt tatcttcatt tgaagggtcaa gtctgtcaaa 60
acaaaaaaga gcccatgcat gtatgggcac aaatatTTTT acaaaagaat cgaaaacctg 120
gaagaacaaa agcatctcgc aggctaaacc ccaagctata cctatctaca cagggttcacg 180
tttcagtatc ttccgattgc gaccctact ggaacaggaa cagggaccca aggtttacgc 240
atgcaagaag gctactgcta ttcctttaca aagagccctt tgaatttgat gatgcctgcc 300
aggatttctt caagcgaaaa tgatatatat atataaccca ttatactc 348

<210> 56462
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-A7

<400> 56462

gacgcctgac tccaaaccct ttcgcctccg ccgccgcctg atagctccag cgccctcgcc 60
gtcggctgcc cggctgccgt cctcccgtta cgagctaggc atctccttcg ccgatccaac 120
atgggtaaga cacgtgggtat gggagctggg cgcaagctca agaccacag gaggaaccag 180
agggtgggctg acaaagccta caagaagagc catcttggca acgagtggaa gaaacccttc 240
gctggatcat cccacgcaaa gggaatcgtc ctggaaaaga ttggcatcga ggccaagcag 300
cctaactctg ctatccgtaa gtgtgctcgt g 331

<210> 56463

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B1

<400> 56463

gaagaaacat gtcttgtaag atactccttc aaaggatcgg gtgcctgtag ctgtactctg 60
acacctgcat ggattgatgt cttgatgatg tagtgcaatg tagcattcag aacaataaag 120
acatgtttcg gactgcaaaa aaaaaaaaaa actaaaaaca agctaaaaaa caaaaaaaaaa 180
gaacaaaaaa aagacaaaca aaacctacaa aaaaaagcca taatggcaac aagtgaaaaa 240
aaaaaaaaaa aaaaagggcg ccccttttaa aggatccaag tttacttaca cttgcatgca 300
aggc 304

<210> 56464

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B2

<400> 56464

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gtgcgggctc tgcaaacgcc gggcttgggc ctggctacaa acctttatct acaagggcta 120
agtggcattc tgccagcagg agtgccggga gaagcacatc tgagtacgac aacctctact 180

tgcgcatgga gcatacctgc tt

202

<210> 56465
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-008-Q1-K1-B3

<400> 56465

gaattcccg gtcgaccac tcgtccgcta gagttgaaac ccaacaaaaa ccatatgtca 60
agggttaaagc gataggctaa atctttggta tatttcattt tttcaaactt cttactgctt 120
ctttatgtca acttcgacct tcctctctct ctctcttttt attgctattg tgacttgaaa 180
gatgtagtaa caggtattct acatttatgt tcttctcatc cggattgcta taagttttct 240
tcagttctgc acaactagtt gctctgcang atagtgtgta tccgctttat gctaacttat 300
atgcattttg 310

<210> 56466
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-B9

<400> 56466

ggtcattgta atgttgcgcg tatattcagt tcttgcccg gatgaaagga caagcgatag 60
ggggccacgc attctgtatg acgcacagac gatcctgaca tatgcagatc ttaactctga 120
agttcttacg aaagaaagcg ctgaaatcat agactacctg aaggcaacat atacggtcgg 180
ccgctgtata ggatccatgt cttacgaact cgtgattgca acgtcatatg tatattatag 240
tgttacctaa attcaattga ctggccgtag ttttacaacg cattctactt ggaaaaccct 300
g 301

<210> 56467
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C2

<400> 56467

atttccgggt cgacccacgc gttcggtagc atggagcctg tattttaaag gggatgatc 60
ctgtttttgc atatgagcaa agatcctatt cgcacaggag aaatagttgt tttcaatgct 120
gatggtcgtg agattccaat tgttcaccga gtgattaagg tccatgaacg tcaggacact 180
gcagaagtgg acattctcac caaagggtgac aataattttg gggatgaccg actattatat 240
gcacatggcc agctttgggt tcagcaacac cacattattg gacgtgcggt gggctacctt 300
tcatatgttg gctgggttac aattatcatg actgagaaac catttattaa gtacctgctg 360
attggcgcac tgggttttgc ggtcataacg tcgaaagatt agtgatgct 409

<210> 56468

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-C4

<400> 56468

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aattataaaa aaaacaaaat aaactaaggg atcaagtaac aagctcaaca gtactaaaca 120
aacacaaatg aaatataaaa tacaaaataa aactacaaa 159

<210> 56469

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D1

<400> 56469

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gtgtgtcaga cgcgtgggta tcttattatg ggtatgggtt tgccttgac agtgtagtt 120
ggccattttt ttgtgaggta cctttgtgca agtgaatact gaattggagg agaatttat 180
gtagggaata tagataacag gcgctccata tataaacttc gttattaggt gctgtatgga 240
ctatggttca catatttgta acgtgaacgg taaccgataa tgtaaaaaca tgtttgttta 300
atttcaaccg taatcagata ccacactaga aactgatatc atcctaaatc attattcttg 360

caattttaagt tagtggagaa tcttttagcgg gcaaggctag caactcaciaa tgtgaagagt 420
 gggcgtagcc gaacacctta agactgattt catggctgta ttacatgcc aagtcttttt 480
 cgacgcat 488

<210> 56470
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D3

<400> 56470

aattctccgg tgcaccgcac tcatccgccc acgcgtgcgt ccacacgtac taaaagggtca 60
 agctcttgct tatgagtact gaatcagggt atgtgaaacc attgcacaga cttacctgaa 120
 catttatcag gtaggtacct ccatgcaact taacactgaa tagaagggtta atcttactta 180
 ttgaatatcc ataaccagcg ctccatatat taactagcca aacaagtgtc gcatgggacta 240
 tggttcacat atatctgact tcaacgggtta ccaatcatgt tcacacatgt cat 293

<210> 56471
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-D4

<400> 56471

ggaattctcc gggtcgaccc acgcgttcgc ccacgcgttc gcgacgtgta cagcttcggc 60
 gtggtgctgc tggagatcct gatctgccgg aggtgcgtgg aggcggagta cgtctagggg 120
 agcaacatcg tggactgtac gaggcgtaat gtcgccggcg gcaacttcat ggacgctgcg 180
 tactgtgcat accagctgac ctgtgaggcg gtccagcact agacggtgtt gtcgctcggc 240
 atggatcc 248

<210> 56472
 <211> 485
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-D5

<400> 56472

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tcttttagtg gttgcaagag ctgataatga gtatctgttt gccttgaca atgttagttg 120
gccatttttc tgtgaggtag ctctgtgcaa gtgaatactg aattggagga gaatcttagg 180
tagggaatat agataacagg cgctccatat ataaacttcg ttattaggtg ctgtatggac 240
tatgggtcac atatttgtaa cgtgaacggg aaccgataat gttaaaacat gtttgtttaa 300
gtccaaccgt aatcagatac cacactagaa actgatatca tcctaaatca ttattcttgc 360
aatttaagtt agtggagaat ctttagcggg cagggctagc aactcacaat gtgaagagtg 420
ggcgtagccg aacacctcaa gactganttc atggctgtat tacatgcaa gtgcttttcc 480
gaccc 485

<210> 56473

<211> 417

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-D8

<400> 56473

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cgcgcggtcg gccctccttt ccaccccgcg ggcgtagctc gctgccgctg ctgcgggcgc 120
ctccccgacg tcccagcgc catacggggg cgcccccca ccggcgatgt cgaagacggc 180
cgagttcgtg gtctctaagg tggacgacct gatgaactgg gcgcgtaagg gctcgatctg 240
gcccattgacc ttccgggctcg cctgctgcgc ggtggagatg atgcacgccg gcgcgtcccg 300
ctacgacttc gaccggttcg gcgtcatctt ccgtccgctg ccgcgccagt ccgattgcat 360
gatcgtcgcc ggcacgtca ccaacaagat ggctccgcc ctncgcaagg tttatga 417

<210> 56474

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E1

<400> 56474

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aaaaaaaaa aaaaaaaaaa aaaaaaaga aaaaggaaaa ctactaaat aaaaaaaaaa 120
ggcctaacgc tctactggat ccaaccttac atccccttga ttgcgacgtc taacctatta 180
ttttgggcca cctaatttca attaaactggc cggcatttca caacgtcttc actggtaaaa 240
ccctgggctt cccaaactca ttcgccttgc agtacatcca cctttaacca tctggcgtat 300
tategtacag gcccttaccg atagcccttt caaacatttg tccagcctta ttgtcgaatg 360
taactcccc tgtagcgggg cattacgcgc aacatgtctg ctgcttacgc ccagcttaac 420
cgttaca 427

<210> 56475

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-008-Q1-K1-E3

<400> 56475

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tagaatcgag gacataaata gtcacaatcc gaatatcatt gtcctatagc gcccaaatc 120
ttgggtgcca attctcataa tctgagtcac ctgtgtcatc actttcagat gatgaagctg 180
ctagatcttc aacgcgcaat atgtatttag caacctgac caggatgtat caggtaacag 240
aggtcgtagt tttacttcat ggtgtctatt cttagggcaa tgggtgtggag aagcacatgt 300
gaagttgctc agccaaataa ctgatctgca atgcgcacat agtgctctat ttgatacaaa 360
tttccatgac gcgcattctt catacttagt gtggaaggac tccttncagc taaagcttgg 420
ataatttg 428

<210> 56476

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E7

<400> 56476

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tactcaaaa caacaaactg ggctggcca catacataat tcaacaaact aataaaaatc 120

aaacacatca aactgacaa aaaccaacaa caatggccc atctttccca aaccaagct 180

tccctaccct tacattctaa gtcatagtc ttataatttt taacctaaat aaacttcaat 240

ggctcaagt ttccaacttt ctttattgga aaaaccctg gctttcccaa cttaatctag 300

ttgcaacaca acccccttta ggcaattcct aaaa 334

<210> 56477

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-E8

<400> 56477

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tatcgtgcaa tacctcagga aaccgtgcct acatgatgag atcgaaaccg gagacgttcc 120

tgggtcaagc ttcgttccgt aaaataaata aatccgaagc acttcaaagc tctacatact 180

cgccttgct tgtttgagac aagggttgc gttcttgctg catctcatcc gagatgattg 240

taatccgaac aatgtgtagt taataaaaaat gtcgctttgc cctgaaaaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaaaatt aaaagatata aaataaaaa 339

<210> 56478

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-F12

<400> 56478

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ggccgttgct gaacgtgcct aagctgatgt cattctggga cgatgaactc atcatgtgtc 120

acagctacaa gatagacgag ccgtggatat ccgtgctgaa cacacaatac agcctgtgga 180

acaacgctaa ccaccatcat cgtgctaacc tccgtacatc actagcgcgc gatctagagg 240

ctccacgatt tcgtacgcta ctatgccaac cgatcgatca ccattcgga gaacatgctt 300
gaagaggatg gccgtccttt caaagagatg gaaatggtaa taaagcagcc ttacacaact 360
ctattggaca tgctgacaac gcagattcag gacatgaagg tcatgacgac actggacatc 420
ctatcgtcgt actcaacag 439

<210> 56479

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-G12

<400> 56479

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tgtttcagat tctatataaa tggcagacac cactcggctc cattaaatgc cgtatctgat 120
aatctgttgc ctaaattagc tcagctaaat attgtcgta ctaccctatg ttactgctct 180
cttggagtct tggcccttgc agtagtttgg tattggaatt tcttttcgtt agcaaacatg 240
ctgagacatt tagttgaacg aacctgagtt gttccgagaa aaatactg 288

<210> 56480

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-008-Q1-K1-G7

<400> 56480

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gtgacttgcc gagacatagt tatcattggg tatctataat agtcaatcg actcgtgcaa 120
tctgaaggct ctgctatatg cggtaaggte gtctatgtaa ctttgtcata gttgatgtca 180
gacggctcaa atctgaatgc tatgtatatg tggtaagttc gtctatgtgg ttgcgtcgtc 240
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ctgtgagagc attgttttaa ttttgccgta atgaaaatca ttaatgttca ggggcggcca 360
ttttaaaggc ccacggtttt agaagattca agcttacgta ctcgtgct 408

<210> 56481

<211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-H1

 <400> 56481

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 aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 180
 ggcgccccctt ttaaagaatc caactttact ttcccttcat tgcaacttaa tacctttttt 240
 atagggcccc caaatcaat ttcattgccc cttttttaac aacttattaa ctggaaaaac 300
 cctgggttta ccaaatttaa tccctttgaa aaaaatcccc tt 342

<210> 56482
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-H6

 <400> 56482

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 acaagacctc ctagaccctc gactggattt cgacatctag cctgcgtagc catatccaga 180
 gatcttccag accctgatag acccatcggg gtagccagtg tagaggggtg ttccatcggc 240
 gctccagctc aagcttgtgc agtacaggat ctggttcttg gagatctgga tgtcaggctt 300
 gaagtcctgc acgacgtgct tcgactcaag gtcccagatc ttaacagagt ccct 354

<210> 56483
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-008-Q1-K1-H8

 <400> 56483

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caagtgcagt caaattgggc attatggtaa tgcttgcccg atggggaatt ctggtacacc 120
agctaagaac aagcaataga cccctggcaa gggatattct atagccaggg tgaatcaagt 180
cagcgttgat gatactcctg atggtggtga catcgactt gacgagcaag cactgtgga 240
atctgaggtt caacaagtag agatagctga gcaggagctc attgaaggag aagaacaggt 300
ggtcgaagag gagccgacta aactgagggc attcgacttg atctacgtgg tgtttctcaa 360
tcgacattgg cgccgacaat ccttagttcg ttttacattt attattttac tttgtaataa 420
gtctttcgct atgtaataaa cactctgatg atttat 456

<210> 56484
<211> 253
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-B1

<400> 56484

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tgaatataac tgtaacatca cgctgtttt gtgaaagctc gtgccttgct caattgtgcc 120
actttagcag acatccccag ctacacctcat cctggctgga gatcatatca tatgcagata 180
tgaaatggaa cgttggatca gagtttttagt ggacgctcaa ttttttttga ggtagcngcn 240
nataaaaata aaa 253

<210> 56485
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-B11

<400> 56485

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aggacgtaca ggcgtacatg gtcggcgagc gcggcgacag ctcggtggcg gtgtgggtcga 120
gcgtgagcgt ggcgggggatg ccggtgctca agtcgctgca ggagagccac cgctgcttcg 180
acgaggaggg gctggagggc atccgccgcg ccgtcgtcga cagcgcctac gaggtcatca 240
gcctcaaggg ctacacctcc tgggccatcg gctactccgt cgccagcctc gccgcgtcgc 300

tgctccggga ccagcgccgc atccacccgg tctccgtcct cgccaggggg ttccacggca 360
tccccgacgg gaacgacgtc ttcctcagcc 390

<210> 56486
<211> 279
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-B12

<400> 56486

gtccggaatt cccgggtcga ccgacgcgtc cgcccacgcg ttctcggacg cgtggggccat 60
gccccatggg acgaaggtga tcaccatatt agtttgttgg taggcgagga gtcgggtcga 120
ggtagctttt tagacgaccg aaaggcgaaa ataagttgag gatctgcac ccaaatttgt 180
gatgtaaact gagacagaac agcagccaaa tgaagcagag atttgctgaa agattctgta 240
actggttgca gctaattgtt aatgcagttt gcccanaat 279

<210> 56487
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-B7

<400> 56487

aattnccggg tcgaccgacg cgtacgggtca ccgggtggcg actcttcgac aaaatctcct 60
ctcgtggaag gctgaaagag gatgacgcaa ggaagtactt ccagcagctg atcaacgctg 120
tcgattactg ccatatccga ggcgtctacc accgcgatct caagcctgaa aatctcctgc 180
ttgatgctag cgggacgctc aacgtttcgg attttggact gagcgacta tctcaæcaag 240
tccgagagga tggctctgctg cacacaacct gtggaactcc caactatgtt gtccccgagg 300
ttataaacia taagggctat gatggagcta aggctgatct gtggatcatgt ggagtgattc 360
tctttgtcct catggcgggg tacctcccat ttgaagattc gaacctgatg tcgctctaca 420
agaaagtttg ccagtct 437

<210> 56488
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-C1

<400> 56488

accggtctcg gaattccctg ttcgaccac tcgtccgaaa aaaaaaaaaa aaaaaaaaaa 60
aattaattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaattaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaatattt taaaaaaaaa aagggtggga atttttaaat 240
ttactaatct tttttagcct tttttttaa ttttaattct ttttttattt aacaaaaaat 300
taaattaatc ttcccccttt ttttataaaa tcatcttatt ttaaaaaatt ttactttaaa 360
tatttatttt tttttaacat tattaccctt ttt 393

<210> 56489
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-C10

<400> 56489

taccggnctc ggaattcccc gggcgacgca cgcgtccggc accatgttgt tctgaaatt 60
acctcccttc agaactccga aagtcacttc acggtacgtt ccattttcat gcgccggaga 120
agagagtact gagaggcgac aagaagatca ctagacacca ctgtccggtc taggctatct 180
tgagaaaggc ttcttggtgg gctaaatgac gaaagaaaat atccaggact ggggtggcat 240
tcaaacatca actgagctat ccagtagcca ggttttaagt gtgttgtaat gcttcaatgt 300
gtttcatttt ccaaagacct gagcttcgct tgtgatttgt tccgagctgt acggtgtcga 360
ttttgtgtat ataataaat ataacgaaat aaagggtntt t 401

<210> 56490
<211> 281
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-C9

<400> 56490

gaccctggga aaaaaaaaaa aaagatttta aaaaaaaaaa aaaaaaaaaa aaaaaaagaa 60
cggtttataaa aaaaaaaagg aaaaaaaaaa aaaaaaaaan nnaaatttaa aaaacgggcc 120
gccccttcta aaaaacccaa acttacttcc ccttccttgc gacgccttat ctttttttta 180
atgtcaccta aatcaaattc actggccgtc tttttacaac gtcttaactt aaaaaacctt 240
tcctttccca aatttaatcc ccttgcaaca aatacccctt t 281

<210> 56491
<211> 253
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-D1

<400> 56491

gaatnccggg ggggacccac gcgtagcgtcc attttttcat cttattcagg tccactgcac 60
cccctgctcg tcactctcca gggcccgtat caaggggcac gagctgcact gaaagagcaa 120
gacggatctt caagcacatc tcaaagagct taaataaaaa ctcttcctcc tacgcgtgga 180
caatgtaacc ggccggggctg ccaacaagct ctccaaaatc aagattgtgc acacctgcat 240
cgctcgctg ctc 253

<210> 56492
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-D2

<400> 56492

accggttcgg aattcccggg ccgacgcacg cgtccgactt gaccagcag ttaatggaac 60
actctttgtt ctcggttcat gcatgaaagc ggctagtaaa attgtggatg tggcatgctc 120
tatggctact acagcctaca acacgaggcc aaggactcct gaagtcacac ttacctgac 180
atgggttgcc gatccaactt tctgtgctac caacaagcta tccaatatca tgatcgagaa 240

<210> 56493
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-D3

 <400> 56493

aattccccggg tgcgacgcca cgcccgctccg gnaatgttgt gaagtgggtg agtcaacagg 60
 tatectnntt tgttgaatca agnncttctt ggagaaggat tgggtctaac tgatagaaga 120
 taaggggtga atattannnn attgctaaan ncttatacaa ttttattgtc atacattacc 180
 aggatatatt taatttctan ncagagaaat tggtcgacng nngtagtctt atagatgcat 240
 tgtcctgcat cttttacgag atatgggttag tcatttttga ccattttgtc aatgatctaa 300
 gcatannngt atttgnnnga tgtta 325

<210> 56494
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-D7

 <400> 56494

gaattnccgg nccgaccgac gcgctccgcg aaggctaatt ttgatttcaa ccagcatccg 60
 tctgataact tcgaccctaa taaccggtat ggggaccgg tggggatggt cgagtaccgg 120
 gaacacctgg tgcgagagaa gtggatccag atcgagaccg ccaagatcat ccgggagcgc 180
 ctccgctggt gctaccgcat cgagggcatc aaccaccacc agaagtgccg ccacctcgtc 240
 gaccaatacc tagaggctac ccgcgggcgtg ggttggggca aggatgcccg cccgcctgaa 300
 ctccacgagc ccaagaagac cgtcaaggcg gagtagcggc gctgctgcct tgcttctcgt 360
 gctgctgttc ctggattgga gaggtgatct gacccttcca ttgagttgaa tgaagtagcc 420
 tggaactgtg gtagttcgtc ttttaca 447

<210> 56495

<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-D8

<400> 56495

cggaattccc gggtcgaccg acgcgtccgc tgctcattac tacgaggatg agactgctcc 60
tactggcaca tgtgctgtat gtgttggggg tggggaaagg tcattgattg caaatctgtc 120
ancngcaaac tgttacaaat ctgagcatct aaagagacca gagaactggg cactagttga 180
aaaggcaaaa tacatctaca ttgctggatt tttccttaca gtgtcgctg attctatcca 240
gctagtcgct gagcatgctg cagcaaataa caagggtgtc ctgatgaacc tctctgctcc 300
cttcatttgt gagttcttcc gtgatgccca agagaaggct ctcccgtatg ctgactacat 360
cttcggcaac gaaactgagg caaagatctt tgccaaagtc agaggatggg agactgagaa 420
tattgaagag attgctttga agatctctca a 451

<210> 56496
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-E11

<400> 56496

aattcccggt cgaccactc gtccgaaaaa aaaaaaaaaa aaaaaaaaaa tttattaaaa 60
aaaaaaaaa acaaaaaaaaa aaaagaaatt tattaaaaaa gttgggacgc caaaacaaca 120
accaccctct aacaacataa 140

<210> 56497
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-E12

<400> 56497

caccggnctc ggaattcccg gctcgacca ctcgtccgaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaattta aaaaaaaaaa aaaaaaaaaa aaaaggaaga aaaaataaaa aaaaaaaaaa 120
 agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggccg gccgttttaa aggatccaag 180
 cttacttacc cttccttcca acgtattacc ttttttatag tgccacctaa attaaattca 240
 ctgcccgtct ttttacaact tcttaactgg aaaaaccctg cctttcccca acttaatccc 300
 tttgcaacac atcccccttt cccagttgg cttaatacca aaaagccccg cacctatccc 360
 ccttccaaac attttcccat ccttattggc tattggaacc ccccctt 407

<210> 56498
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-009-Q1-K1-E4

<400> 56498
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 aatgctgtgc tcatcctctg ttcatccgc gataagggct gccgtcctta catgtgtgga 120
 actagctacc gccactcgaa ttgcttgat cagttcaaga aagcatacac caagggggca 180
 ttgcttgagg aagttcctgc aaatagcgtt ggactgatc tggattcagc gccattggat 240
 gcagaaaaaa tcgagtccat tgaccttgca tgtccattgt gtcgtggcaa ggtgaaaggg 300
 tggacagtgg tagaaccagc tcgaagctac ctcaatggga aaaagagaac atgcatgcaa 360
 gacggttgct cattcgtggg gacctacaag gagctccgca agcatgtcaa gttggaacac 420
 cctcttgcaa agccaaggga agttgatc 448

<210> 56499
 <211> 189
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-E5

<400> 56499
 gaaatcccgn ggtggacca cccgtccgcc caccgtccn aaaaaaaaaa aacaaattta 60
 tttaaaaaaaa aaaaaaaaaa aaaaaaaga agggtttaaa aaaaaggggc gccgtttta 120
 aaatacccac ccttacttcc ccttccttcc aacattataa ctcttcttta gcgccaccta 180

aattcaatt

189

<210> 56500
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-E8

<400> 56500

gtccggaatt cccgggtcga cgcacgcgt cgggctccn tcgtctcgtg ccatectagg 60
gtttctttcc ccgtcggcgc ctcctcanat ttagtttgga cgcctccgcc gccgctgacc 120
catgttgtct tgatggcgcc cgctgtagaa tccgtgaagg agacaggctc gttccagaag 180
gttcctgcct tgaacgaaag gatactgtca tccatgtcca ggaggtctgt tgctgcacac 240
ccttggcatg atctggagat aggtcctggg gtcceaacca tattcaactg cgtcattgag 300
ataccaaggg gcagcaaggt taaatatgaa cttgacaaga aaactggact gatcaagggt 360
gaccgtgtgc tgtattcgtc agttgtttac cctcacaact atggattcat tcctcgcact 420
ctttgtgaag acagtgatcc c 441

<210> 56501
<211> 292
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-F11

<400> 56501

accggaatcg gaattcccgg ggcgaccac gcgttcggag gaaccctatc gtaacactgt 60
gcatgttacg gcggcgcgct accggnacg ggtgatgctg ctgcatcgtg ccctcggcc 120
cctcctccat ccccggcgcg gctgcgccag cagccggcct gcagctttat aatggatccc 180
aacatgaagc agcttcaaga ggctctggtt gatattgaga ctgatgcaga aaaagctctt 240
ctggctagac atcagttggg ggaaaatgat aagataagaa atggttacag gg 292

<210> 56502
<211> 128

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-F3

 <400> 56502

 accggnccgg aattccccgg cgcaccgacg cgtccgcatg gcgcctctgc ttgattcgtg 60
 tttcatctgt tatgttctga gattcatgat gatgcggtga gaactgaaag gcccgaggca 120
 tgcttctt 128

<210> 56503
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-009-Q1-K1-G2

 <400> 56503

 caccggnccg gaattccccgg ggcgaccgac gcgtacgccc aaccctccnc aatattcatt 60
 ttttggttgt gtctggagtt agtcagttca gggcttgggt atgtattata tactgngatt 120
 acaacacaag gttctagggt gtattaatga tatgtcctga tcattcctgt gcccggtcaa 180
 aaaaaaaaaa aaaaaatatt tttt 204

<210> 56504
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-009-Q1-K1-G4

 <400> 56504

 cgaattcccg ggcgacgac gcgtccgatt ttaaaactta taaatgtttt atacattcaa 60
 attgtaattc tttttaatca ttttctggtg gaatcactcc gatgattggg taatgtaaac 120
 ttattgtaac atgtaatcat tttgtaataa agaatttatt tccgctgcgg aaaaaaaaaa 180
 aaaaaaaaaa attaataaaa aaaaaataaa aataaaaatc agactaataa ggctctaaca 240
 taaaaaaagg ccaatacacg caaaaatata tctactatag cccctgttta cctggcggtc 300
 gttctggagt acctaccctt ttatgtcctg gaactcgccg gcaactcttt ctatgacaac 360

<210> 56505
<211> 216
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-G5

<400> 56505

cggaattccc gggtcgaccg catcgcgctcc gaagaaagca canaatctct ggtagaagtg 60
gacatcgctca aggaaaacat aagcatagag agaaggctag tactcagcct gatgctatac 120
ctcaagctcc agtcattcaa gatttccttc tgtagcatct gagagactca tttggtacac 180
ttgagttacc caatatatgt gttttttttg ttcctt 216

<210> 56506
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-G7

<400> 56506

cggaattccc gggccgaccg acgcgctccg ttctatttaa agattcaaac accaggctgt 60
tcctttaata catcatgatg catccctgaa gttggtgtca ttcacacact gcacccatt 120
actcttatca aactcatttc tcattacca aattgtaaca accggcttct attctatata 180
atztatgccc aacagaactt tgtataacca tctttttaaa aaacgtgctg atcctttttc 240
atggacaata aggtcaaac ttgccattta atcttctacg agcttgatcat tttacatga 300
tgctgaaaac caagtcatat atcgtgattt caaagcatca aacattcttc tcgactcaga 360
attcaacgca naactttcag attttggt 389

<210> 56507
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-009-Q1-K1-G8

<400> 56507

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cccatgacct cctcagaccc nataagcgga gctgggtcca tggacgccac cggcactgta 120

tctggaggga aggcaaaaaa nggagcggcc ggtcgcaagg ccggcgggcc gaggaagaag 180

tcggtgacga ggtccgtgaa tgccgggctc cagttccccg tcggccgcat cgggcgctac 240

ctcaagaagg gccgctacgc gcagcgcgtc tgcagcgggtg cccccgtcta cctcgcggcc 300

gt 302

<210> 56508

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-G9

<400> 56508

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aaaccttttc aaccggccgc agcccaactc cgccaccgtc tacgactggc tctacagcga 120

cgagaccagg atcaaccacc gctagatcgg gcgagatgga tggacagtga agaggccatg 180

tttgctggtc cttgggggta tctaaaacgc acgcatgtc taatatagct agtcatcact 240

atatat 246

<210> 56509

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-H4

<400> 56509

cggaattccc gggtcgaccg cacgcgtccg gccggcgacg gctgcttaac cctgcccgat 60

ttcgtcgccc tcatggagtc cgcgtccggg gacggcgctc tcgtagagga ggacctgcgc 120

cactccttca tggctcttga cgccgacggc aacggcctca tcacgcccgc cgagctcgcg 180

cgcgtgctgc gcggcctctg ggagtcggcc accgtcggcc agtgccgccg gatgatccaa 240

ggcgtggacc gcaacggcga cggcctcgtc tccttcgacg agttcaagct catgatggcc 300

gcgggcggcg gcggcggatt cggcaggatc ggtgcctatg aacaaagatc ctgtgcctgt 360
 cctgctctgg ctctgctttg cttogetccc acaaattgga tttctctcat tttatgtatg 420
 tacatatact acact 435

<210> 56510
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-H6

<400> 56510

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 tgccgcgcg accggtactc ggaccggcac ggctgcagct acgactacag gggcgccgcc 120
 cgggacgcca tcgcccggga gaaccgggtg gtgcgcgcgg ccaaagtcgt taggttctga 180
 tccacgacgg gaaggaagga cacaacacaa aggctcgag gccggagaag gggagaaagg 240
 cgtgcagaca aggtcttcgg tggtattatt attacgctgt tcctttgatt ttaatctcct 300
 ttttttttaa aaaaaaata tttgtcctat ggctatggga atgggaggag a 351

<210> 56511
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-009-Q1-K1-H8

<400> 56511

cggaattccc gggcgaccg acgcgtccgt gccagttcat catcaccacc gtggaaggaa 60
 gcatgtgcta agtgcacatt tccgggctgg atgcaagcat tggagaaact acagatggac 120
 atagcaactt ccactgattt gcttggtgtt gaaaccagaa gcacatgctt cattttctcc 180
 attggaaaag aacctctgaa aaccgctcct tcagtgggtg ctctgggtga acgaataaac 240
 attttgaagt gatacctcgg ttggcgctgc acatgatgcc ttcaacacat 290

<210> 56512
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-A10

<400> 56512

ccggccggaa ttcccgggtc gacgcacgcg tccggaacaa accgcgcgag tcgacactga 60
aagggattgt cataggaagg cgcaacgctg ggaggaatac aaccttcaga ttgcgtggat 120
tattggctgg cgtggcactc tagtctgtct ttccacttta ctgaccaaac atcaaacaaa 180
tcatggtctt ggacaggaag aaagacagga aagctaacct gtattacctg agggacaaga 240
tgaacacact taaaagatga ggatttcaac ttgtttctat gattactttt gaggcgagcg 300
gatcaccatg gtttgtcaat atgcaatcac attgtttggg gttgcatctt tgaaaaaaat 360
catagcttgg ggttgtcagg tcgcatgctc cgatc 395

<210> 56513

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-A9

<400> 56513

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cagcaaacga ccaccagtaa gacctcatca agcaggctac aaaaaccgag cttgctggaa 120
tggaatgttc tcacacaaat ctaacaatca gtctctgtaa tgtacatcga cctacctaca 180
catatggcgg catccatgga ctgtttgtta gcatggcatt tgggcagcct tcctttcatc 240
accttctaata tgctcttttg ctctgtaac tgctaagagt cgagagcccc cctgcaaata 300
ctgaca 306

<210> 56514

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-B1

<400> 56514

gcactttgtc ggtgctatcc tgtaactaga atcacacaag ataaccatgt ttacatttta 60
cagcaaacga ccaccagtaa gacctcatca agcaggctac aaaaaccgag cttgctggaa 120

tggatgttca tcacacaaat ctaacaatca gtctctgtaa tgtacatcga cctacctaca 180
catatggcgg catccatgga ctgtttgtta gcatggcatt tgggcagcct tcctttcatc 240
accttctaata agctcttttg ctctgtaac tgctaagagt cgagagcccc cctgcaaata 300
ctgacatctc ataggggtgga gacgagggct ggatcga 337

<210> 56515
<211> 288
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-B11

<400> 56515

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gactcgtggg cggacgcgtg ggcgagcggg tgggcggaca cgtgggcgga cgcgtgggaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg 180
aggaggttaa aaaaaataaa aaatttataa aaaaataaat aaaatataat aaattataat 240
gtgtgtaatt ttataaaaaa taaaatttta ctttttttta aaaggaaa 288

<210> 56516
<211> 355
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-B3

<400> 56516

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atattagttc gctgctttag ggcattgttt aaccaggtc cttatttttc tcagttcttt 120
ttaagccatg ccaagggtg tattccccgt atacggtaca gatcgcgaaa tccctatcag 180
ggatggtttg gtgatatcag ggtttatatg ttttctgac cgtggtgact gtctgtttt 240
cattcttctt tcttcgtgc cctgtattca tttgtcaag ctggggcagg catccaagta 300
tttggaatg tatatttgag cttgcaggat acaaaggaaa cgaattgttt tgtat 355

<210> 56517

<211> 351
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-B4

 <400> 56517

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 cttatcaaaa tgcagttgat acaaantgt acgtaccatt ctcccatcga ataaagtctg 120
 acaattttatt cttttttcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggggcc cttttaaaga atcaaaatta 300
 acttccccgt gcttgcaaag aaaaagtttt tttttggggc ccccaaaatt a 351

<210> 56518
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-B5

 <400> 56518

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 gagcctgtca gttacctctg cggagattgc ggagctgaga acaccctgaa gcccggagat 180
 gtcacccagt gccgtgaatg tggctaccgc atcctctaca agaagcggac ccgccggatt 240
 gtccaatatg aagcgcgctg aagagtgaag acaagggaaa aactgaaga tggttgatct 300
 attactcgcc acattaccta tgtaaacagt cttctggggg aaatgaaaat gtcagactta 360
 acgtttgtat gtcgtgtgcc tcctttgaac ctgagctgta taatttgtaa cgcttggact 420
 ggggactgat tngagaactg agacanctgc agcatatgtt gatggatcct 470

<210> 56519
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-B6

<400> 56519

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ctcgttcgcc cacgcgtccg gcaaattgat taggttgaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa taaaattaaa aaaaattaat aaaattaacc taaatttaaa 240
aaatttgta atttaaaaaa atcttactta acaaaaaataa attaactttt attaaattaa 300
tttttttt 308

<210> 56520

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-B7

<400> 56520

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cgatatactt ctcacctcaa tcttgcgaga agcgaggcca gaagaggagg gtgcgaggag 120
atctccagca gcctgagccg gagccggagc cggaggccta gtagatgaag acgttcgac 180
cgtggccggt cttcttccgc cgggagtgga agcgcaattg gcccttcctc acgggggttcg 240
tcatcaccgg ctcatcatc actaagatga cggccaactt caccgaggag gacctcaaga 300
actccaagtt cgtccaggag cacaagaagc gctgaccaac cagttatcta tgacatggac 360
gccggatggc actggcagag ggattgtgta cgggtgtgtc cgaattgcct gtctggacag 420
ccagctatgt tatgctg 437

<210> 56521

<211> 244

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-B8

<400> 56521

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tccactcttt cgcaagaaga cacactccat gggctggtcc tctttccccc cactcttaga 120
gcacaatacc cagcaattct accagcaaga atcctcaaaa ctgctcaacc agatccaaat 180
tctgcaaaac actaacatgc actttgtttt tgactctatt tgaaacttgt tactcaaata 240
gctc 244

<210> 56522
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-B9

<400> 56522

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tggaagacg aggttgatcc gttccacata ccgtcggact acacctgggt cgatgccacc 180
gagaagaagc ggaggatgaa ggcaaagaaa gccaaagaca ggccgaccac agcccgaana 240
cagtcctcga agaacacttc ttcggaagga ggccaccgcc ccatgatgga tggcttcgag 300
gagtaaaccg cgttctcaca agcatagtaa gttgtatttg cattcttaaa atgttagttg 360
ttgatggcag ctgcacgcca gaggcagatt gattgatgtt gtgcctggag caccctctcc 420
ctttgcgtgg caatg 435

<210> 56523
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-C10

<400> 56523

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ggcaagtccc tgtaatttgg gggggttttg taggttgac ccttggtggtc attgtttttg 120
aaattttctg ttttgaattg atccattata tatgaag 157

<210> 56524
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-C4

 <400> 56524

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 atttctaaca gggtgaggac aagaacctag ggatgatcaa taggataatg cttatacgga 180
 ctatggctcc tgtattgata tgcgtttttc aatacggtcg cgtctgtcga tccgggcaat 240
 ccggaccgga acctgcaggc gt 262

<210> 56525
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-C6

 <400> 56525

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 cactctcttc tactatgcta tatttggatg gggaaagagg aaaccaacag gaagattcca 120
 gctctcaaat tgatttgctc tgtaagtga gtttgacgga ttcacatcat gtgccccctg 180
 agtggtagtt cagtttagcat cttagaaatg tatatgatca acaaaaccaa accaatccaa 240
 accaaatcat cttcccaaag agttgaggaa ctgcaaatga tcaactctga gaccttaaag 300
 gccagaatta tcaactctga gactttgaag gcaagaatgg ggcaactgtt ggttaccacg 360
 gacatggatg ttaaagtaga acccagttga ctttgcaatg tacacatttc ttgtatcggc 420
 tcttcattta cgtctgtatt aatcgcttta tgattggatg atgatgttat t 471

<210> 56526
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-D11

<400> 56526

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gccgccggtc tcttcagcct cgcagcacac gggggcggcag cccgagtgcg cgctgcagcc 120

tanggtttcc ggcggcgatg gcgggtaagg gagggaaggg tctgctggcg gccaaagaca 180

gggcgggcaa gagcaccgac aaggacaagg acaggaagaa ggcccccggtg tcgcgctcct 240

cccgcgccgg cctccagttc cgggtgggtc gcattccaccg ccagctcaag tcgcgtgcct 300

ccgcgcacgg ccgcgtcggc gccaccgcgg ccgtctattc cgccgccatc ctgcagtacc 360

tcaccgccga ggtcctcgag ctggccggca acgccagcaa ggacctcaag gtcaagcgca 420

<210> 56527

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-D5

<400> 56527

tccgccagac atcgacttcg cttccatcca cttttaccct gacacctggc tgctgcagca 60

gcggggccgg gtggacgaga agctcaagtt cgtgaagcgg tgggtggcgt cccacatcga 120

ggacgggggac aaggagctgg gcaagccggt cctcgccacc gagttcgggc tgctgcaccg 180

cgccaagggc ttccaccact cccaccgcga cgtcttctac aaggccgtct acgacaccgt 240

ctaccggtcg gccgcccggc gcgggcgccg cgccggcgcc ttcgtgtggc agctcgccgt 300

ggaggacatg gaggagtcc acgacgactt ctccgtcgtg cccagcgagc acccctcgct 360

gcacaggctc atcaagtcgc aatcgtgcag gctggccaag cttaggcacg gggtc 415

<210> 56528

<211> 230

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-D6

<400> 56528

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ctctccccgc tcttgaaatc aacaaggaat agaaatccat ggaggctggg cggcatacna 120

tagtggn tga cggatatcta ggatggatgg atggatggat ggaacacagc attgcacatg 180
cagctaaagc ttctgctaga tcgatcagag cacggccacc ttttccacag 230

<210> 56529
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-D8

<400> 56529

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tcttccccgg gggctggacg gcggtcctag gcgcgcgcga caacgttggt gtctggaatc 120
tgcgcgccga aaggctggat gactggtaca gagggcagga ggtctatgtg aaggttgccg 180
atccactggg ctacaacatc accgagatgg tcgtcccga caatgccctc tactgtgggtc 240
tactgaagga gaggcaaaag ccacagggtc atgagtcgaa cagcaagtcg tcggcgcaag 300
gcgatgctgg atggagcaac cgactcctcg caaccatgat cctggtcgtc gcagctgtga 360
tcttcagttg atcctctctc ttttttttcc tccaaagttt tttggtagaa ttttgcctag 420
aggaaataga acattgaaac gtctagccta c 451

<210> 56530
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-D9

<400> 56530

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ttagattgtg ctgcaattta ccattcttgt aatttagtat taaaaggcta ttcctgtttt 120
ctcctgaaat tcggaatgcc gcaccatgtt tctatccaag taactccttt atgcatgtct 180
tcatttgggt ttggcagact caagtgttac ttgatgaact ttgtgactta aagagaaagg 240
aacaaatgct gcaagatgca aacagggttc tgaaaaagaa gcttggctag tt 292

<210> 56531

<211> 447
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-E10

<400> 56531

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agttcgtaa cagcaacctc tccccgatcc agtctggatg ctgcaagcca ccaacggggt  180
gcaacttcac ctaccagagc gaaactgtct gggccaagcc cgctggtttc aacaccacaa  240
ctgacgaccc tgactgcacc acatgggtcg acgaccagac cgtgctctgc tacgactgca  300
tggtcctgca ggcaggcgtg ctggccaacc tgaagaacga ctggaagaag atcgccacgg  360
tcaacatcgt cttcctgata ttcctcgctg tcgtctactc cgtcgggtgc tgcgcgttca  420
ggaacaancc gcaggacaac tcgtacc                                     447
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<210> 56532
 <211> 251
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-E11

<400> 56532

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cttgcaaggt ttgaggcggc tttctttaga acacatgcta attatTTTTT ttgtttcatt   60
ggtgtatgaa actaaatctt gatattcatg ggaagcttcg agttctTTTT ccttttggct  120
tactgcgcaa gaagggtaac gagaggacgg cggcgatggc gaagaggctg ctcccgctctc  180
tgaaccgggt gctggtcgag aagctgggtc agccaagaa gaccgccggc ggcatacctcc  240
tcccggaaac a                                                         251
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<210> 56533
 <211> 199
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-E12

<400> 56533

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 actgctattc ggaacagtat aactcaagca tcatgatgat tgttgatggc ttcaagtgtg 120
 accaatgttt gcttcgactc tcacttgaag ccatcaacaa caacatggat gcactaaaat 180
 aatcttcttg tataactca 199

<210> 56534
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-E4
 <400> 56534

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 atggcggcgt ccgatgttga gtaccgctgc ttcgtcggcg gcctcgctg ggccacggac 180
 gaccactccc tccacaacgc cttcagcacc tacggcgagg tcctcgagtc caagatcatc 240
 ctcgatcggg agacgcagag gtcccgcggc ttcggcttcg tcaccttctc cacggaggag 300
 gcgatgcgga acgccatcga gggcatgaac ggcaaggagc tggacggccg caacatcacc 360
 gtcaacgagg cccagtcccc cggcggccgt ggag 394

<210> 56535
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-E8
 <400> 56535

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 ggccggccaca tgaggcggca ccgcgaggag aggacgacgg gcgccgccga tgcctgggtc 120
 tggcgcgccg acgacgcgct gcagcggggc cgcgggggcg ccgccgacc gcccgcttg 180
 ctcgagctct tcgcctagct agctagatga tccgtagcgg cggcattgat tagtatataa 240
 tccaccagga acatgtaaata cttcttaggc cctgtttggg aacaaagttt ttgaaaacca 300

cagttttttg

309

<210> 56536
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-F11

<400> 56536

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tgcgttcgga taccccaacc tgaagagcgt gaggggggtg atctacaaga gaggttacgg 120
gaagctgaac aagcagagga ttccacttag caacaacagt gtcatcgagg agggcctcgg 180
gaagcacaat atcatctgca ttgaggacct tgtccacgag atcatgactg tgggcccgca 240
cttcaaggag gctaacaact tcctctggcc gttcaagctg aaggcacccc tcgtcggctc 300
caagaagaag aggaaccact acttataggg cggtgacgcc tgaaaccgtg agaactacat 360
caacgagctc atcaagagga tgaact 386

<210> 56537
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-F12

<400> 56537

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gttttggttc agatacgatg atgtttcggt tgtaggttcg acgttggttg ctgaactcgt 120
aacattttat tgcgtgtatt atgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaact aaaaaaaaaa aaaaaaaaac aacaaactaa 240
atcaacaaaa aaaaaatata attaaaaaca aataaattaa atagggggga ggctttttta 300
gataccaaat ttaaaaaaaa cgcgtacgca a 331

<210> 56538
<211> 165
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3088-010-Q1-K1-F4
 <400> 56538
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 atagtgggtt ggattggatt tggctggtag gtagcgtgtg tatggcatgt tgctgaatca 120
 aatgatgtga tcatcgcaag gtcacaaaca gcctctttgt catgt 165

<210> 56539
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-F6
 <400> 56539
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 ggcacaatgt agcctgcact gctgagcgtg atgggtacct gtactcactg aatgcttcca 120
 ctcttagcaa acagtgggaa tctatggggc cctttctaca aaagaccgtg gcctcctttc 180
 gccttctccc cggtagacaa aactatgttc ctccctacaa ggatccttgg agattttggt 240
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 gtttttagacc atatttttca cgtcagatgt ttagtgagtg tctgtccttt cagcttgaca 360
 gataaaattc agagacccag tttggatatca gtttcgcccc tcgtgttcgt tctgattaat 420
 aacagtcc 428

<210> 56540
 <211> 326
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-F8
 <400> 56540
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ctcagctctt tcatacgtct actcctaatac aaaatcccat cacatttcat gttattggta 240
gacctcttga aaactctggg gtttaatacag tatgtcactg cggataacgc tgtcaaaagt 300
aaaaaataca caatgtttta agaaat 326

<210> 56541
<211> 316
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-010-Q1-K1-F9
<400> 56541

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ggctacacca tcgcgggcaa gaagaagggg tcggtttcct tcacgatcga ctgcaccaag 180
ccagtggagg acaagatcat ggaggtcgcc tcgctcgaga agttcctgca ggagcgcata 240
aaggtcgccg gcggcaaggc tggcaacctc ggcgactccg tcaccatctc tcgcgagaag 300
accaaggtca ccgtca 316

<210> 56542
<211> 308
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-010-Q1-K1-G3
<400> 56542

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cgattcctat tcgtcgtctc ttcagggctg gtgcgcactg ctgcgccgtt ctgttaaccg 120
aaacaagaac tctgtgtatt cctgtaccga gctgtgcatg tttttttttt ctttccatcg 180
tggaagaattt aagttattat ccgtttgctg caaggtttgc cgtctcattt tatgcgttgg 240
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ggttttct 308

<210> 56543

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-G5

 <400> 56543

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 ccggcggtcg gccagccgcc ggcaagcgcc tcagcccaa cagtcgcacc gccgccgccc 120
 aggcaaacctc gaagccaccc ccgcccgcgc agccacagcc gcgccgagct tgagccgtcg 180
 ttgctccgct gaatcgcccc catcgtctct cctgaagaga gaggacattt attgagacag 240
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 aaccatccgt gagttggatg ccaaatgag agaagctgaa aatgatccac atgatggaaa 360
 gagaaagtgt gaagctctct ggcctatatt tcgtatttct catcaaagga gccgctacat 420
 atatgatctt tact 434

<210> 56544
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-010-Q1-K1-G9

 <400> 56544

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 ncacaacatg ggggaggtga agcacctgtg cctggccaag ttcaaggagg gcgtcgtggt 180
 ggacgacgtg ctcaagggca tgaccgacct cgccgccggg atggacacgg tcaagtcttt 240
 cgagtggggc caggacgtgc tgaaccagga gatgctgacg caaggcttca cgcacgtctt 300
 ctcgctcacc ttgcctacg ccgccgacct cgccgcctac atggcccacg acagccacac 360

<210> 56545
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-010-Q1-K1-H1

<400> 56545

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ggatcaaact acctgatttg tttccaacaa tgggtgtctgg gcccaacaat atttaccttt 120

ttaaatact accaatccac ctcaactagge cttttctgta acatcataca cgacccttac 180

gatttcaaaa catatcacca tttatcaaca aaaacaactt attatatattt gtggggccatc 240

tctctaaagg atccaatctt acgtaccctt tcattcaact ttatatcttt tctattgttt 300

cacctaaatt caatt 315

<210> 56546

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-010-Q1-K1-H3

<400> 56546

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gcagggcatc accctttacc ggttttaactg catatccgtt tcttgcacaa tcagaccaag 180

tgctgctcctt gggttgcaat aacttcccct ctgcattggg gaagatggtc tctccaccct 240

tctcgacatt tgataggtac atcagcacag tggcaatgcg atggccgccc agggcctgat 300

tatttttgtc atggaagtag tcgtagtggg gttcatattt ctcaccattc tggtagtgta 360

atatctgaat ggcttcacca ttctctggtg gaagaaatgt ccaagcaa atcctctcct 420

ctattttctg tactacttca tctgcttct tctcgcta 458

<210> 56547

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-010-Q1-K1-H6

<400> 56547

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gtgtcgtttt agtgcctaac agggttgatg aattttgtga tgagttagct actgtcctgc 120
 cgatgactat gtttgcttcc aaaggacacg gcttatcgtc gctgatatac taggtattat 180
 gttataaatc acatggactg cct 203

<210> 56548

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-A4

<400> 56548

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 agcagaaata gacataaaat acatacatat acatgcatac tacagaaata tataatatat 120
 agagctacct aaattaattc aactggccga cttttaaaaa caatggcgac tgccaaatca 180
 a 181

<210> 56549

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-B4

<400> 56549

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 cacaggtttt cccctcatct cccgagctaa gaccgctcat ccctggacac aacgcaacac 120
 agtgtcgagg gggatcgtga ggcgagagcc ggccggagac tcagtcctcg accggtcgtg 180
 gtggtgttcg catcggcaga tcagaaggaa aaccaaaga atataagacc gagagctctt 240
 ggagccgtcg tcgatctagt cggaggcctt ctgcacgatg ctctcgagcc gcggccttca 300
 cagcccgacg cgggcgcgcg tgccgcggct tcagtggccg ccgtctgacg cggccttttc 360
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<210> 56550

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-C7

<400> 56550

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gatatgtact ccaatcttta gatttttcgtt gttaaaacac tctatttggt taatgatggt 120
attgtcaatt aaactaggat cagtgggtctt ctctataaag gtatatgttg ataaaaaaaa 180
taaaacaaaa gataaaacaa aaaattaaaa aaggaaggcc ggtctaaata gtccatccta 240
gcttaccttc gcgtgcatgt taaggcctag ctcttctgta gagttaagtt aatttaattg 300
actggccttt tatat 315

<210> 56551

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D3

<400> 56551

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aggttctgac cattgctgtc aaccgggggg actcgtcaac agcgaaggga gtttagggac 120
ctcgtatgtc taatggttga ccctttgaga ccaggagact tcaaccaagc gctaattgag 180
ttaggagcaa catatatgta tcaagacaaa acctggttgt tctcaatgcc cactctctag 240
ccactgtcaa gcgctttcgc tttcccggtg aaaa 274

<210> 56552

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-D5

<400> 56552

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cgaccaaagc ggcgcgcgag tcggcccctg cgaccggcgg cgtgaagaag ccgcaccgat 120
tccgaccggg caccagggcg ctgcgcgaga tccgcaagta ccagaagagc acggagcttc 180
tcatccgcaa gctggccttg cagcgcttgg tccgcgagat cgcgcatgac ttcaagaccg 240

acctccgctt gcagtcctac gccgtcgacg cgctgcacga ggctaccag gcctacct 298

<210> 56553

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-G2

<400> 56553

cccacgcgtc cgcccacgcg tccgccact cgccgcgga cgcgtgggat tttttcttag 60

atgttctctc aagttaaggc ttaagaacca gaagtgtgag gattgtttcg tattagatat 120

tctgccttgc cttgtactac ttccttctcc gagtattgta atgactatac aatctgttgg 180

cttgattgtg accgctgcta ttgaccacgc cagtatttta ctgcacgaga aagtgggtgtg 240

cacgaactat tctta 255

<210> 56554

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-G6

<400> 56554

gttgtaatgt aaggagatg tttaaattct tgggggatag ttgtatgatg gtgccagcga 60

tgatgcagtg ttttctgaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaataat aaaaaaaaaa aaaacaagaa aaaaaaaaaa aggactaccg ttctaaagga 180

tccaagctta catagcatg catgcaacaa ctaagctttt ctataatgtc acctaaattg 240

aattaattgg ctgcatttta acaacttagg aactgtaaaa 280

<210> 56555

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-H3

<400> 56555

taccggttcg taaatcagg ctgcaccac gcgtacgcc acgcatccat ccacatttcc 60

ctactattga agctgcggtt gcagtggagc gtccgggggt caaggaagcg gtggatgtgg 120
ctattgatct gaatccacct aaaattatat aacttgcaac gacaatggac attactcaac 180
tcttacacac agctatgaac atgttatata aatatgacac cacacatgaa tatgtctagc 240
taagaggcat agctgtctga tgcatatcat gtgtaacacc tcaaggcttg tcatgtagtt 300
catgaaactg gcatgatggg atacattact ctcttcaa 338

<210> 56556
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-H5

<400> 56556

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ggccaagggt gtgggtggctc tggctatggg tctggatccg gctccgggta tggaggtggc 120
aacgacaacg gacattacta ggctcttttt cagagctagg aacatgttat acaaatatgt 180
caccagacat gagtaggtct tgctgcatgg gatgctagtt gtgtccatcg tgtgtgtaac 240
accgcaaggc ttgtaatttg tctgtgaaac tgcttgctgc ttacattac tggcaacaac 300
taagtata 309

<210> 56557
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-011-Q1-K1-H8

<400> 56557

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cttcgacaca cacaggatca tatctgtcga ggaccatgcc tatatccaga tcaacattga 180
cccattggat acgaatggcc tgtatgaagg ttgggtcaca acatctgctt tctctagatg 240
ttaaactgct caaggcgaat catacagctg ctctgacaga ttgtcacgga ataataatgc 300
tgatatcatg cattataaat tacatctagt gtaccaagag atgcacactg acttaactat 360

at tt t t g a a t t c a t g c t a c t a t a t g c c a t g t t g g g a a t t c

399

<210> 56558
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A1

<400> 56558

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g c c a a a a t g t a t t t c t t g t t t g g t a t a t a g c a t c t c t a c a c a c t t t g g t g a a c t t a g t t 120
a c t g c a a a t t a g g t a a t t a c a g t t g c a c c t t t t g t a t t t t a t a g c a a a c c c a g a c t t t c t a 180
t t t g a t t c t a t g a c t g c c c c t c t t g t a g t a a a t g c a a g g c t t c a c t g g t a c t c t g t t t a 240
a a g a t t g g t c a a a t a g a a g a g a c g a c g g t g a t t g t c t g a t t g a g a t a a a a a a a a a a a a a t 300
a a 302

<210> 56559
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-A4

<400> 56559

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a g g g a a a a a a a a a a g g g g g c g g c g t t c t a c a g g a t c c a a t c t t a c g t c c g c t t c c t t g c c 120
a c a t c t t a g c t t t a c t a t c g t t t c a c c t a a t t t c a t t t c a t t g c c c g t c t t t t a a c a a c g 180
t c t t a a c t g g a a a a a c c c t g c c g t t a c c c a a c t a a a t c c c c t t g c a t c a a a t c c c c t t t t 240
c g c c a t t t g a c t t a a t a g c a a a a a g 265

<210> 56560
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-012-Q1-K1-A9

<400> 56560

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gctgaaattg ctcacaacgt gtccactaag aagcgcacgg agatcgtgga gcgtgctgcy 120
cagttcgaca ttgcggtcac gaacaagctt gctaggctcc gcagccagta ggacgagtag 180
tctgatttct tgacttaacg acgaactgga tgctgccatt cttttctgtn ggaaactaca 240
ttgctngtgt cttgttaagt actgaaaacc agagtcactc ctaacctttt tgcaatcagt 300
agctactaaa atgtggcaaa naaaaa 326

<210> 56561
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-B12

<400> 56561

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aagagtagat ctatcgagtt ctaagggtggc gtgatgtctg ctctgtgtct tgagaagata 120
tcggtaaaat atcatggctc ataggatatc tagtgtatag tcttcttgca gcacagaaga 180
taatgttttg ctgcttcagc aaacatctga agtatgagtc ttattattaa gaagtctttc 240
ctttaactta tggcgagttt agcatcggtc agttatcaaa cagttaaagc gtcgtctgaa 300
atcttgtctg aatatcaaaa aattaaccaa actcaatgct agtgttcgag attgaagtgc 360
tcaatgcccc actaatcgc atctgtcaaa taa 393

<210> 56562
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-B2

<400> 56562

cgcgtccgca tggactgagg tattaacacc ggcagccaat cagaaacttc aggaagaggt 60
gacaaagccg caccctcaat gtgcttgag cagaaaacgg tgaaaatggc aatgtgttta 120
aggtctgtga tgactcagtt aatgttgtca accttgacac atgggaatgc acctgcc 177

<210> 56563
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-B3

 <400> 56563

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 ttgtcaattg aatacatgac ttgcgatgtg ttaggatact ggtagtaaat aatagcgtgt 120
 atatgttact actctttttac tctttttgtc attattatat tatcttttgt tcatcctggt 180
 tgatatcagt taaaggggtat tcttttttta ctatatgctt tttttattat aattttttatc 240
 tttattttta ttttatttta ttatttcttt ttttttttcc ttttattttt tctataattt 300
 tctttatata atttttttatt tattttttata tttt 334

<210> 56564
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-B4

 <400> 56564

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 gtgtagtgga cctgtgacca tgggtggattc tttcatctgt tcaatgaaaa aaaaaacaaa 120
 tattttcacg caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaata 178

<210> 56565
 <211> 234
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-B5

 <400> 56565

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 ccctttctgt tacgtgtttt attttattgt gtttctgtgg tcgtatatct gttttgtgac 120
 gtgtcccttg cttctcccat gtgaattcca caagaactat gagaaatttc aggttggtga 180
 tcactaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aata 234

<210> 56566
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-B9

<400> 56566

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gccatcattg tacctctttc catctggctc tcgtgttgcc ttggttgaat ttgtgcttaa 120
tgtagccatg aatttggtgg cccacatatg gacgcatgtg ttgttgttgg ccctctccct 180
tagaagtgat taaaagttgc ttttggacca catg 214

<210> 56567
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C2

<400> 56567

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tggccgccct ggagaaggac tacgaggagg tggccgcaga gggcggcagt gatgacggcg 120
acgaggagga ggaatactga tctgcttgca tgaatctgtt tggctgtcga gccaggttgt 180
ggtgttgaaa aacctttgtt tgtgtcctgg gtaatgtttg ggtgtttcct tccatcatca 240
cttgctgaac tgctctagta tttgcatttg taattgaagt ctgtcgcttt aagcactctt 300
ggttct 306

<210> 56568
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-C6

<400> 56568

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cgagaacggt tgccgatcga tcccacgcaa aggggcaggg cagcagcgga acctgaatct 120

cctttttgtgg acaaggatca ttcaacaaac atcataacct ataactttat tttatccttg 420
 tcactgcaat tttgagattg cgtngcttgt ctacctatgt tatccagagt cttgt 475

<210> 56571
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-012-Q1-K1-D2

<400> 56571

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 tcgcacgccg agaggaccaa tatgccgttg ccggacatcc ggcgcagtgt ctccctgccg 180
 cgcggaaga accctcttgt gtgaatctag ctggttctgc caaccaggca ttctttcatt 240
 ggttggttgt ttctttatcc tgtggttcga tccgaatgta ggctctacgg ctgtgtagaa 300
 cagtcacatcc ggatgcataa cacaaagtct gtcgagttgc ttccaccagg ctcccatgaa 360
 aacgcaaagt tcacgctctt atgcgcgatg taaaaaaaaa aaatnaaaat aaaataaatt 420
 ataataaaaa aaaaaggcg g 441

<210> 56572
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-D3

<400> 56572

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 tgccccctgt ggtgctacgc agctgcagca acataagatg gtcaggctaa aatcatgttg 180
 tgggatctga ttctaattgat gcttatttag tactattaca aatatctatc gttgcttata 240
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<210> 56573
 <211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-D5

 <400> 56573

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 gtacttcatt gacaagggcg catcttctgc cgccaaagtg gttaggaagg cttatccgca 180
 agagaatgtt ggggtgttcg ttcaacgagg ccgtgggtga ccgctctcgg tggttgagta 240
 cagcgaaatg gatgcggcta tggctaccga aatgaatcag tcgacagggc gacttcgtta 300
 ctgttgagc aacatctgcc tgcacatgtt cactctggac ttcttgaacc aagtggcaaa 360
 cagccttgag aaggacagtg tataccatct agctgagaag aagatccctt c 411

<210> 56574
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-D7

 <400> 56574

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 ctttatctct tcatcggtag atgttgctga aatagtgtaa atgttactgg tgctctgttg 120
 tgcttctcta aattcaataa tatttgaatt gggggggggg ggggcacgct tgagtacgcc 180
 aagcttatag tcttgtctgc ttgacttgaa cgagtgtac tgatgctagc atatcaggct 240
 gatctgacgc atacaaaagc tatccgacta tgaatcccaa attgctcatc gcatctcgcc 300
 aacttatgaa attttacacc acagctatgt gcaaggattt tgacatgtag tgctgatgta 360
 tgatcctccg tcatttgcag 380

<210> 56575
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-012-Q1-K1-D8

 <400> 56575

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 tttttttttt ttgaaaaaaa aaaaaatgct ttttatttta aataaaattt agtttttttac 180
 caaaaaacca tttttattaa gcataaaatt ttttttattt aaaagctata ctctatttat 240
 tccatattta caagccaaac ctctatgttt ctaacttttg catttaggaa aacatattaa 300
 aaatttt 306

<210> 56576
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-F11

<400> 56576

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 acaaaaaaaaa aggggcgaac gcaatcgggg gt 92

<210> 56577
 <211> 111
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-F3

<400> 56577

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 ataataaaaa aaaaaaaaaa aaaaaaaaaa aaggggaaaa aaaaaagaga g 111

<210> 56578
 <211> 489
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-F7

<400> 56578

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ccgttccagc gcctggtgcg ggagatcgcg caggacttca agaccgacct acgcttccag 180
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gacaccaacc tctgcccatt ccacgccaag cgcgtcacca tcatgcccac ggacatccag 300
cttgcccgcg gcattccgtg ggagagggcc taagcatcgt atattctgtc atcagtgtcc 360
gatcagaaga tgtagagatg tgctgggttc tgtagtttgg gttactgtcg aatcatcgag 420
tagttggttg ttcactgctg taacttaata tcatggatgc atatgaaatg gcaatgaact 480
atgttatca 489

<210> 56579
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-G2
<400> 56579

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ccgccggggg catctcggag cagcggcagc agcacgtgct ccgacagcgg ctgaggctcc 120
ggctcccccg tcctgggaaa gcactcgagg gagtcgaggc cgcagggcga cgagaaggcg 180
gaacgacggt gcctgtggat cccaagacg ctccggatcg acgaccctgt cgaggccgcc 240
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ttccagtcga agcatggacg gcagcaggag ctgcaagcgt ccggcgccgc tcgcccctg 360
caggccaacc cggcggctct gtcgcgctcg cagtcttttc aggagacgac gtgattacta 420
cactac 426

<210> 56580
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-G6
<400> 56580

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ggtgagaaag aggtggccct ctgctgtaga tgcaacagag gagacagaag aaagcaccga 120

aggccaagca cagcctaata atgttgctgc cccagaatct gagtataaag gagacggaaa 180
gccatgtgaa tccgaagcag ctcccttgc atttggtgat gaagcagctc cccatgtaat 240
tattgatgaa gagaagaaag aggaaaatac tgagaatgag aacagtcagg cagccgaatc 300
tgccgtgcct ttcctggcat ctttagaggg agagaagaaa gagaatgggtg gtgcccctga 360
acaacca 367

<210> 56581
<211> 331
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-H11
<400> 56581

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tgggtattgc ggtgtgggta gaggaatcca tagcggttcg tctgccttga atctgctgtc 120
agttatagat tcagattcag aaagctgaaa gttagtttgg tagtcttgag gggatgaatt 180
atgtcaagct agtttactgg tgttaatggt gtaatttaca ctagcatggt tgtaattgac 240
ataactttat ctaacttgaa tatgcccttg ggtaccttgg atttgtgact atattattat 300
tgggtctttga atccttcatt aatgtaccgg t 331

<210> 56582
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-012-Q1-K1-H4
<400> 56582

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aagacggcat gacggacggt tcattccatt ctccagagtgc gcatgcggcg cgctggcca 120
gccttaacaa gacgcacacc ctacactggg aggagttcaa gaagaagcag aaggaagagg 180
aactgaaaag gggtgagctg gaggctgaca aagacaaaat gatgagagag tatagagctc 240
aactggatgc tgaaagagct caaaagctag caaacggaag aaatcactca aggtcaaact 300
caaatcatc atcttccaag aaagagagga aggataagga cgcaaag 347

<210> 56583
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-012-Q1-K1-H8

<400> 56583

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gagctgatag tgtccctgaa attgctgtga gaccacctat gaaaaggatg ctttgagtgc 120
acatgtatag agttcttccc tgaagcgatt ctttcacttt cttttctttt gttttctttt 180
ttggttcctc ctcaccatct ccaccccacc cgtccacttc tgcgttcctt cgatggatct 240
ggcgagcccg cggaataaat gagagttttg gatatatagc tagggcttaa cctcgtcgac 300
ttgtctgtaa aatcgaatga gacatatata taaacctatg ttgttttc 348

<210> 56584
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-A4

<400> 56584

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gactgggtaa cacttaaattg tgcaagccaa gctgttattg ctgacaacga gactggaaaa 120
aacgggtaca ctgttccatt agaggctctg ccagcatgac aattcgaacc attgtacaga 180
actccactaa gcattcagga tggagaattg ccagtcctgc ccatgtccgt gtatgggtgct 240
gttgccatgg cacatagtgt ggattcagat gaatacaact caccaactca gttctttttc 300
tatctttatg acaagagaaa ctctggctta agaggaatat cgttcgacga ggggcaattt 360
tcagatttcg ggtataccac ggattggaga gatgttctgt cacagattaa gtcctgagat 420
aaaattcgat ctgccaaact tgtaca 446

<210> 56585
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B1

<400> 56585

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aaaattaaaa aaaaaaaaaa aaaaaaaggg aaaatggaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggttc 180
ccctttttaa ggacccaatt taacctcccc ttttttcaaa ataaaaacct tttttttaat 240
tccccctaaa ttaattttaa ggcccttctt ttaaaaaccc tttatttgaa aaaaccttta 300
gtttcccaaa ctaaaacctt ttttaaaaat tccccttttt ccaaattgtc ctaataccaa 360
aaacccccca aacatattcc tttccaaa 388

<210> 56586

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B2

<400> 56586

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ttcgtgaggt tctccggggg tccgtggggg gggtagcgcg atcgagatgg cggcgtcgga 120
tggtgagtac cgctgcttcg tccggcgccct cgcctggggc acggacgacc actcccttca 180
caacgccttc agcacctacg gcgaggtcct cgagtccaag atcatcctcg atcgggagac 240
gcagaggtcc cgcggcttcg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc 300
catcgaaggc atgaacggca aggagctgga cggccgcaac atcacgtca acgaggccca 360
atcccgcggc ggccgtggaa gcggcgggcg cagcgggt 398

<210> 56587

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-B4

<400> 56587

gaattcccgg gtegaccac gcgtacgcg acgcgtgggc ggacgcgtgg ggtgaagatg 60

aagtatcatg tgttctaact ccagactggt tgaacgattc tgttgaggag tccactgcag 120
agaaggatgt ggcttctgat ggggatgagg ctgagtcaac agggattggt attagaagcc 180
atcacctgc tccaagatca agctcagaga gttcattcac tcaacaggga actgctatgc 240
aaaggctgcg gctacagtca ggccttaaca aaggccagcg tcctagtact gatgattcat 300
caagctgcat tattgacgaa ccaggaagtc agcacaagc agaaaaagca taaattgaag 360
aagatgccag ttcaaacctc gctggaagtg ctgatgatct a 401

<210> 56588

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-C7

<400> 56588

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tgttctgcta ctgcggaacc tacctcatgc atgctctgat agtatttggt atttttggtg 120
catcgtaaa ttatgctacc catgttaca gtccttgaa ctctgttatc agtgtaccat 180
ggagaaatcg aagccaacta tgtttggtggt tatectgtgt tatctcaatg aaaatgatgg 240
tttagttgac tattaataaa cgtcaacgta ctacaatgcg gttgaactct tattaatgc 300
aaatggtggg actatctata ggatcctagt ttacttacac ctgcatccga cggaatgtct 360
gttcaatagt gtcccttaaa ttaa 384

<210> 56589

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D2

<400> 56589

gaattcccgg gtcgaccac gcgtgcgcca aaagaaattc tgtaccact gaatcctcac 60
agtttgagag catggatggg cctaaatcgt ttccccgatg gaacatcgca gttcgggggc 120
tttgcaaggc ctacctttgt gcctgctgca ctttctcagt ttgggagcat ggctcaacct 180
aattatgtgc attcttctca atcctctcaa ttcacaagct tggttcaacc gaattctgta 240

cctcctgctg agtcctcgca gtttgaagc aaagcccaat ctagttctgc accccttgc 300
 aaaacctctc agttcaaggg catggctgga ccaaattctg tatctcctgc tgagccctct 360
 cagtttggga gcatgattag acctaatttg gtacctcccg catcttctca gtttttgggg 420
 agcatggttc gaccaaattc tgtaactcca gaatcctcac agtttgggag catgaccaga 480
 ccaaac 486

<210> 56590
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-013-Q1-K1-D3

<400> 56590

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 cccatcgtct ttcgcccag tccgttgccc gtgagcctct gccgcgggat gggcagagggc 120
 cgtgccgcgc ttcgccgat ggaaagaatg ctcgtcattc ggcgccatcc cgagcctgct 180
 ctgaagtgtg agctatttgg agggccgata tgccacaaag tagaatcaaa tttgatcatn 240
 nttaggctct nnntcgggtga tangnntcta gacccaaaca tgnntattga gaaatgccca 300
 gctgtaaatg cccgtttgca tttaatcagt gtccaattct cacaaattac tgcgttcnnc 360
 tcctaattac atattgtctc ntgtcagtgg tattaacctt ggtgacttac cannnattat 420
 gc 422

<210> 56591
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D4

<400> 56591

aacgacgtcg agttagtctc tcgctccgcc ttctcatca accagaaatg ccatgtcaag 60
 gggaaggatg tcaggaagtt tttggatggt atctatgtga gcgacaaggg tgtgatcgaa 120
 gaggagcagt gagggacaat tagttgttat cgtttgagtt ggaattattg tttggtttgc 180

aatttttctca aggtgaactt tgtaatcggt taggatgtgt tgtggaccat tatcttatcc 240
 tacaatatta tcgtatctgt ttaagaaaaa aaaaaatatt ttattattat tatatataaa 300
 tttatttatt tagtgtaata aaaat 325

<210> 56592

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-D8

<400> 56592

cttgatattt ggagtttcgc tgccagtcac tatagaagat tgtaattttc tatgacttat 60
 gttaaaaatg agtagttaca tgtgtttttt tagataatag ataaaaaac aggctttcac 120
 gtattttatg gtcggacctt atggagtgtt tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaaaaaaa aataaaaaat aataacaaat 240
 aatataaaga aaaataaatt caattcactg tcacgtaga 279

<210> 56593

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-E3

<400> 56593

ggaattcccg ggtcgaccca cgcgtagcc cagcgtccg aaaaaaaaaa acataaaatt 60
 aaaaaataat aaaaaaaca aatataaaag ggaaaaacgg gcaatttagg aggagacaaa 120
 aaaaaaaacg catgcatctt acaagatacc tcttttataa actcatctat aataatttaa 180
 tacccttgaa tattccaact ctacttactt taaaaaccct ggcttttcca aactttatac 240
 ctttaaaacc catgcctctt tcgactgatt ccgcattaac aaaaaggccc tttcctaattg 300
 tcatatccaa ccatagtgc aacctatagg cgaattttac aacctttttt caagctcatt 360
 aaccattgtg ctctcccta ttactcccaa ttaaccogt acaatttact ggttcctaac 420
 acccagtcct ttccattttt taccttcc 448

<210> 56594

<211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-013-Q1-K1-F2

 <400> 56594

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 ccgatctacc ctgcggcacc accatgtcgg tgatcgcggg cgaggacttg catcatatgc 120
 tgcgtatgct gaacaccaac ttggatggga agcaaaaaat catgttcgcc atgacctcaa 180
 tcaaaggtgt ccgacgccga ttgtcaacat ctgatgcaag aaggccgaca tcgacatgaa 240
 caatatggtc cgcaagetga cgcctgatga gctggagcgc ctgatga 287

<210> 56595
 <211> 486
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-013-Q1-K1-G2

 <400> 56595

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 tctgagcaat ttcccgatcat gtgaggccaa gcgtgttctt gagaggctgt ataacaagcg 180
 agagagggaa agagctgcaa atagaggctg aggttgatac ttccacaaac ctggtgctct 240
 gtaattccac cgcaggtcta tccagagccc gtatacgagc tttggttatc acagatagct 300
 gtcccatttg tcttaggcaa atgcgttagc atgatgtctc ctacacaccc taatatctat 360
 tgtctcatca gcatgatcat tatgtacaca acctcgagaa attctttagc atctcaatta 420
 gttgtgattc agattaattg tgtgacagtc tggttttgta tgcacagac gtttatgttt 480
 tgtgtt 486

<210> 56596
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-013-Q1-K1-G8

<400> 56596

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cttgctgtgc aattattacg gcgtaacctg cgtcgctgct ctcttgatcg gagatcgacc 120
accttgactc attggaacat agccatatat ctggcagcta gcatatatct gatcaaagca 180
aagccatata tctggcagtt ctgggggtgat ccgtccgtgg aaaaggcttg gccactgacc 240
tgcgcgagga caaagcagta gaaacatatc agccaatcaa agcaaagcca tatgaattca 300
tgttaaacat gtccatacat atagcagtga aaagtatcaa atcactgatt tcttctcttg 360
gcctttgtaa ctgtacatac tgctttcgag gcctttgtaa ttgttcatac ttcttacggg 420
cattcattat gcaagcatgc t 441

<210> 56597

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-013-Q1-K1-H8

<400> 56597

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gaggtaacctt tcatctgtcc tctatcaggc ataagagaag aatgcgagaa catgcagcct 120
gagccatgag ggagccgtca ctttaagcgg gcacagtaaa tgtttctgaa ataagacgcg 180
tagctagcat cagtttgctc cacttggtat catttggcca tgctcactct atcctttegc 240
tagcctctat gaccggacct aaactggtgt gtgagaaaca tccacgactc tcttcccaac 300
tgttttccta aagcgaaatg ataacacttc ttaataattg tctatacgat tgaagctgat 360
ttgattggta a 371

<210> 56598

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B1

<400> 56598

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gatgccccgt ctttagcagg cgcagatggt ggaatagcca tgcgaactca ttcaaaagag 120
 aacgctgcct ctgatgcagc ttcagttggt ctactaggca acagactttc tcaggtggta 180
 gatgcgctat ccctgtcgaa ggcaacgatg gcaaaagtcc accaaaattt ggccctgggca 240
 gtggcatata acatagtagc cattccaatt gccgctggag tgctgctgtc acaatatgat 300
 ttcgccatga caccatctct ctcatggggg ttgatggccc ttagctcaat ctttggtgtc 360
 agcaattctt tgcttctgca gctgcatggg tcgcttcaga acacaag 407

<210> 56599

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B11

<400> 56599

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 caagccgctg aagctcggtg agcgtgtcca ctctacatgt cctcctgccg tctcagcctc 120
 ttgtgtttta caccctacaa ctctagtagc cgccgaataa gatttgctat ctgcaatgtg 180
 ctcatgccac cgctgtgtgt gccagttaac agtttgcacg aaacctaga tattttgtta 240
 tacgaatgaa tgacatgtgg tgtttgataa atgatgaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa ataat 375

<210> 56600

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B3

<400> 56600

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 tacaagtaaa cagtctaggg gtgattatgg ccacgggagc aacggcaatg gcatgtacta 120
 cgggacgcca ttctacgggt gatatgggta cgcctcaccg gtcgcccacc caaacatgta 180
 tgccgcggcc tacggagcct acccgtagta tggaaaccag cagctagtga gctgatgtgg 240

caatgctctc tggttcagttt cctacctcgg atcggaggga ggaaaccaag tctttggtcc 300
 tgtaagatag tagctacaat gagatattat aggcggccat acaaattggc tagagacact 360
 agaagggttt ttgattatta tgctactctg tacacttgtg ctgttt 406

<210> 56601
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-B7

<400> 56601

attcccagtt cgacgcacgc gtacgctttc ttttacatct ttatggggcg ctgttcttgt 60
 tcactacgcc accaacctca tagtgtccag gtcgaaagct cggatgggtt tgttactcac 120
 acttgtaacta attttcatgc atctatggat cgacaatact catactgtca accaactgaa 180
 cccacttccc tategtgctc aactagctac tttataccca tccttttctt 230

<210> 56602
 <211> 70
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C5

<400> 56602

aaaaaaaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaagaaaaa 60
 gtgaaaaaaaa 70

<210> 56603
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-C9

<400> 56603

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 ggaggggggca ccgggacgtg tgtcgcttgg acatgtgcta gttgctacaa atttgtcgaa 120
 ctaattcaca tcagcatttt aaatcaatac atatcctctg tctctacctc atcttcagac 180

tcacccatcat tccctctgaac gccgactgtc tgaccctaca actctggaac atgctccaac 240
aaagctctac gcctactact cgagctggaa ctagtgccct taaacactaa gtcctccttt 300
ctcataacat aggcgctctc ttgcgaagtc ccttagtgaa cttctagatt ttcagagaga 360
cacttagaat tttgtggact aatatgactg ttccaccacc atgagcggga ttttctgag 420
tgcacctttc tcttcatctt caccaaaata taagaaaatc ttctctgata 470

<210> 56604
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D1

<400> 56604

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aattaaaaaa aaaaaaaaaa aaaaaaagaa aaggaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa taaaaaaata aaaaaggggc ggccctttta agggacccaa 180
gtttccaaac ccttccttgc aaattattat tttttttttg gtgtccccta aattaaatta 240
attggccggtc tttttacaac ttattacctg gaaaaaccct gtctttccca attttaatat 300
ccttgagaaa aattcccttt ttgcaagttg gcttaattcc aaaaaggccc t 351

<210> 56605
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D5

<400> 56605

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ccgctgatcg cacgtctaca tggacgcggg ctattctgac gagaaggcgc tacgtgactt 120
cgcaaggaca gcgtccgcct cgacaagcgc tgccagaagt cagaccgcac ggagttgacc 180
aaggttacgg ctcgtaggga gatcgggttc gtctacatgg gcttcatcgg attcttcggg 240
aagctcatct tgatttccat ctacaacatt aatagtcagt tcttgctagg ctcagggcga 300
gacttgcatg ggcgtagtac gatactatgg agagcaacgg atatccagga acttgccctt 360

tggaat

366

<210> 56606
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-D9

<400> 56606

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tcatggacac gggcatgagg catcatggtg gtcattctca cattgagttc cttactggct 120
gcggacgatg cttggcatgt tccaacagct aaagtttgag ttaataaatt ctatcaccct 180
gcatgggact catgttggtt gcaactgggt tagcacgaac tggctctgtt actattgtgc 240
taatgtatgt gtttcgaagt ttcagttaat atgctgtgga aaagaatctg gtgcacgttg 300
atgttcttt 309

<210> 56607
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-E1

<400> 56607

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tgatgctgca atcaagcatt cctcaattcc accatgaaa taaacaccat ctactccctc 120
gtcaacagca ccgccgaat gcagtaaaag caccaagcca tcttggttgc tccttacgcy 180
gaggtagcag gcagcagcgg gatcaagcgt tacagacata gtttaacctc acgagcatcg 240
tctcatcatc gtcacatcg tcatacaaac ataagtagac tccgaaccaa aacgctgtaa 300
aacgatggag ctaagctagt gcaagggatg gag 333

<210> 56608
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F5

<400> 56608

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ctgaaggaag aaaagccagg tctaacgctg cggcaataca aagacatgat atggaaactg 120

tggaagaagt cctcagacaa ccctcttaac caggctgctg actgaatttt gcaaccctac 180

tgaatcttat gtgtaattaa aggccaacct tcaaacagca ctggataggt gaattgtggt 240

ggtacctttt tcttgagtg gatgcgcact aaaccgtgca tcataaaggt gttccagtct 300

cggctaataa tttccaaatc tctggagcgt atgctgaatg aagtgcctt gtttatgcaa 360

ctgttggaatt gtttagtcac tagactt 387

<210> 56609

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-F7

<400> 56609

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gttatataag gtacctaggc gaactaacac ataccaacat agctatcaat tttgttctaa 120

agacaactaa atggagcttc actatctaga agatccacac cttacttaac tcgttcatac 180

caatgtcata actcaactat attgtcacct aaattaaatt cactttccct cc 232

<210> 56610

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G11

<400> 56610

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cttctgggta tggttactta tggttctgtg gaggggctat ggcggcggct gatgtggagt 120

accgttgctt cctcggcagg cttgcctggg ccaccagcaa cgagtcgctg gagaatgcct 180

acgacttcta cggcgagatc ctcgactcca aggtcatcac cgaccgggag acggagaggt 240

ctcgcggatt cggctacgtt accttctcct tcgagaactt catgctctac gctatcgaga 300

acatgaactg caaggagctc gacggtcgta aca

333

<210> 56611
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G7

<400> 56611

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gtgattgtat acttggtagt cagcccttag gaacaggtat gtgtttgtag caagacttac 120
gacgtgaaat gaggattctc ttggggacat taatggtata acgtgcgaat gttagaacct 180
aaaaa 185

<210> 56612
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-G9

<400> 56612

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tgatagttag cgtgtgtatg gcatggggct gaatcaaagtg atgtgatcat cgcaagggtca 120
caaacagcct ctttgtcatg tacatcgttt tccatcatgc tatagtgggt gtcagtt 177

<210> 56613
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-014-Q1-K1-H2

<400> 56613

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aaaaaaaaaa aaaaaaaaaa aaaaagaaaa aatataaaaa ataaaaaaaa cataaataaa 120
aaaaaaaaaa atataatata aaataaccat aaatttaatt tattttcaacc tattttttata 180
ctaacttttt ctacttttaa aaccctttta tttccttaac ttaatttc 228

<210> 56614
 <211> 179
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-014-Q1-K1-H6

 <400> 56614

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 catttccatc tcgattttgt atgccgtgac cagcaaagat taaatgtttt cttgcggttt 120
 ctaaaaaaag aagagcccg c tgacgaaaaa gcccacaaca ggacgaacgc tatagacga 179

<210> 56615
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-014-Q1-K1-H7

 <400> 56615

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 catgatgatg atctgtgtct catggatccc gacggcaaaa atatggaacc tgagccaccc 120
 ttccgctcgc tttatagccc cgtcgccatg gcgtcctggc tgacatcctc gatgccaagc 180
 ccatgcctgc gtcgaacgag agggagacca tagacaccca ctggccctgg cggtagtaga 240
 gccaaagatc tattcactag aagtacgga cgcgccatgg atcgcggtgca gccgacgata 300
 cctccgctgc catctgtcca caaacagacg actctggcgg ctaattgtag cacttccaga 360
 gcggagacgc gttcaatgct ccggttagat ggtactttcg acattgaaac ttgctagcaa 420
 cttttacgga tg 432

<210> 56616
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-019-Q1-K1-A3

 <400> 56616

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tggcttgctc cctcttccg caccgggttc tcgctccgga gtccgggtgc cctctgctct 120
 ttccctaacg aaggtagcca tggcggggag aggtaaggcg atcggtcag gcgccgcaa 180
 gaaggccacg tccaggagct ccaaggctgg cctccagttc cccgtgggaa ggatcgccag 240
 gttcctcaag gccggcaagt atgccgagag agtcggcgcc ggcgcccctg tctacctgc 300
 tgccgtgctc gagtatcttg ctgctgaagt tcttgagctg gccggcaatg cggcacgtga 360
 caacaagaag acccgcatcg taccgcgcca cattcagc 398

<210> 56617

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-A4

<400> 56617

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 tagcggaaat ggtggccttc aggttccgct agtgccaggt gggggggcgc gcgctgccga 120
 cgcccggcga tgagcacccc aagatctacc gcatgaagct ctgggccacc aacgaggtcc 180
 gcgccaagag caagttctgg tacttcttga ggaagttgaa gaaggttaag aagagcaacg 240
 gccaggctct ggccatcaac gagatctttg agcgtaaccc gacgacaatc aagaactacg 300
 gcatctggct gcgctaccag agcagaaccg gataccacaa catg 344

<210> 56618

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-A6

<400> 56618

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 gcatgctctg agtctgagat gatgatgatg cctgatggcg gcgtcgtgtc ctgtagtcct 120
 cccctgcccc ctcgggcgct tctggcgggc agcagtgtgt tgtgttgtgt tgtgtgggtg 180
 cagcacggta gcatgctagc catgtgccct gctgtgttga gtcaccatcc atctataata 240
 atcttatatc tataccccac cttttgtgta aaaaaaata agtcttatta ccacttagtc 300

<210> 56619
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-A7

<400> 56619

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gtggtggatt tggatttaac ccaacaatga gttggggagc agagaaaagac gggctggata 120
tcatgcagca tgactgggct ctacctaaga tggagcggca cgcagaagat gtgttgaaac 180
agttgctgaa gaaatgactc gaacggttgg gcttctggga agcaaacactc gcgtcgcgctc 240
ttccagtttt tggtgaagcc agtttggacc aggaatttta ccatttctaa atgtattatt 300
tataactagc tactataaca cccttagaag gtggagaccc ggtgttgtga tacttaatat 360
aagtagaaaa aacgtaattc tggtacttta ttcttctgat atttatgagc atcgtttaag 420
cactcgtgtg gtgatttctt ttc 443

<210> 56620
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B1

<400> 56620

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acgtggactg agaaatcttg ctctcgtggg atgtccaaga tggggacact acattatagc 120
tgctatacta ttggaccatc caatacaaca ttgttacgcc agaaaatacc attcatgtta 180
taagactcca ggtattctgg atttacccca aatttgcag atcctcattt agaaatatcc 240
cgaacttttg aaccatcatt gccttatatt cataatggct ctcatatcaa c 291

<210> 56621
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B2

<400> 56621

gaattaccgg gtcgaccgac tcgtacgggc agcagccaaa ccctacatag gcgccgtttc 60
atgcggccgc cccgcacgt cgccaaaggt gcggatcttt gtgaagactg tgacggggaa 120
gaccatcact ttggaggtgg agtcctcgga caccatcgac aatgtgaaag ccaagatcca 180
tgacaaggag ggcattcccc cggaccagca gcggctcacc ttcacggca agcagctcta 240
ggacggtcgc accctcgccg actacaacat ccacaaggag tccacactac acctggtgct 300
ccggctacgc ggcggcgcca agaagcgta gaagaagacg tacacctagc ccaaagcaga 360
aactttgatg aatc 374

<210> 56622

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B4

<400> 56622

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ggacagccgc atagcaatgg ttggtccgaa tggcggtgtc aggtccactg tactgaaact 120
aatttctggg gatctgcagc caacttctgg aacagtatct cgctctccca aggttcgcat 180
ggctgtattc aatcagcacc atgttgatgg ccttgatttg acggtgaatc cccttttgta 240
catgatgaag tgctatccgg gtgtgccgga gcagaagttg agggcacatc tgggttcggt 300
tggtgtttcg ggaagccttg cctccaatc tatgtacact ttatcaagtg gtcagaagaa 360
tatggttgca ttcccgaata taaccttcaa gaagccgcac atcattcttc t 411

<210> 56623

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B5

<400> 56623

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atatatactgg ataatagcct tgggacacta tcatcatgcg ttcgagggca aaacagcatc 120
 gaccagtgac atgaaccgga cacattaata gttaatacat acggtaggtt gctagacaca 180
 aaggagcgaa ccccttccctt accgaaacgc agtcactcac atagcatgat agcataaaca 240
 gcctatacat tgccacgcgt acctcatttc caggccgggt acgagttgtc ctgccggttg 300
 ttcctgaacg cgcagcacco gacggagtag acgacgacca ggaagatcag gaagaccatg 360
 ttgacggtgg cgatcttctt ccaatcggtc ttcaagt 397

<210> 56624
 <211> 510
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-B6

<400> 56624

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 cgccgtcgag tctgccgtca agggcgctctg gggcgccgtc tacgaccggt tgggcggcct 120
 gccgctcgac gtccctgcct tcgctcgaccg caaggtggac gacacgggtc acgaggtgga 180
 caagcacctc ccgggcgcgc tgaaggcggc gtcggcgcat gtctacgcgg tggttcgggg 240
 cgtgccggag gtggcgcgcg agctggcggc cgaggcgag cggtcggggc tgagggggcg 300
 atcccgtgcg gcgctcgca tgacggagcc ggtggcgcg gacgtgtacg gccgcgtgga 360
 gcccggtggc aaggacctct acgtgcggtg cgagcccgcg gcggagcacc tggccgtctc 420
 cgctgggcg tcgctgaacg gcctgccggt gttccgcac gtcgcgga tgcgtcggtc 480
 caccgtcgcg cactgggccc acaagtacaa 510

<210> 56625
 <211> 460
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-019-Q1-K1-C1

<400> 56625

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 gacaggttcg ggttctaccg aaagcttgta agagggcacc tgttgcggc atactaacia 120

gacatgattt catgcctgaa catatattgg gccttcaccc tttcctcttt aagagtagat 180
ggaagaaggt gcgacttggc aaggtaaaag ttaccaacat attttgaagc ttgctggtga 240
ctggtgattt ggggaggtca cagaaggatc atccgaagct gtatacctgg tgtcaaatca 300
tgtattttgc agagaataac tcaacttgaa aactagtgga tcttacttca agaaaataat 360
ttcgttgtaa atgctaagaa gggatggaac atggctgcta aatgctaaca agttattttc 420
ccacgaacaa gangaatctc acttgtaaat tattatgcat 460

<210> 56626
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C2

<400> 56626

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tggcagcaag ttcagcaggg gccagactaa tgaatgagct tgatagcatc cttgcagcgg 120
tgccttggaac tttggcgggtt agaagaggtt tataatttta tatgatgaaa ttatgtgcat 180
cttcagttgt ttttgccctca ctgctctgta aggacatata aaattggtat ttgtactttc 240
taaagttctc cttggaatgg tagagtttta cagggaacct ttcacatca gttgctgaca 300
tagctcgaac tcgacgtttc t 321

<210> 56627
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C3

<400> 56627

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gccatcaggc caaacatgcc ttagttggca tgaggacacc gctcgcaggg attaggtaga 120
gcaattttgg cagatgctga aatacgggtgt ggggtgtggcc tgcgcattca ttgcctgcag 180
acaataataa ggtgcttatg ttcttgcaac aaactgcagc acctgaaatt ctgcgtcatc 240
atcactgccc tttccaactc agcagagctt gaagatggca gcagcttcat ccgcagctgg 300

ttgttgcaga agcaatgatc atcatgacta aatctgacag taatgggttc gagagagatg 360
ctaagatggt gatctttttt tgggt 385

<210> 56628
<211> 485
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C6

<400> 56628

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tcacggacgt tgcagcctgt agggagggca tgactgggaa tgtggtcagc gtggaccttg 120
ctaactccgt ttttattaac cacacctctg acaaggagta caagctgaaa ccaattgggtg 180
atgctggccc tgtaattgat gccggatgga tctttgccta ctcccagaag acaggaatga 240
ttgcgtcaaa agctgctgca tgaaggaaag cttaagcatc cgatcctctt ctgagatgaa 300
gaagtaagct ggagtttagga ctaagagtta ctgcacctac ttgatgtcga cgggtgtctca 360
aaataagttg cggcctacct aaattatgat gaatcaatca atttggctct tgtcacagat 420
cgtttttttt tgtttgctac tagtacttgt acaattgtac tcctgcctgc tactgtcctt 480
atctg 485

<210> 56629
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-C7

<400> 56629

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ggagtgatgg caagccacag gagtggcgag acagaggaca cctgcagggc tgacctctca 120
gttggcctgt ctacggggcca aatcaagacg ggagctcctt gccggtctga gcgcctggcc 180
aaatacaacc agctgctcag gatcgaggaa gagctcgggt atgccgcggt ctacgccgga 240
gcaaagttca gggcaccagt ggagccctac taagaaagga agaggatggg gatgttttct 300
tgtggagcta tactagctcg ctgctgcctt ttgttacaat gtttgtacgg tcgcaataaa 360

tgtatggtcc tgtttgctcg agagctactc aggtgatttt gtcgtgggag caccaaaagc 420
 agaaaagaac tgtttttttt tc 442

<210> 56630
 <211> 465
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-019-Q1-K1-D2

<400> 56630

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 tcatgataga ccagttctac tgcgacaggg cgaggtgcat gaaccagacg tcggcgggtgg 120
 ccgtctcggg cgtccagtac gaggacgtca ggggcacctt caccgtcagg cccgcgcacc 180
 tggcgtgcag cgacagatcg ccctgctcgg ggatcacctt cgccgggata cagcttcagc 240
 ccctgccgct gtcgcagcac cgtcgnetgt cgtacgacct cttctgctgg caggcgcttcg 300
 gggagctgtt caccctcacc gtgccccca taccttgctt gcagatcggc aggccggcag 360
 caggaacag cgtgctttcc gacggtgacc tttgctgaaa cgccgatcgg ttcatcagtt 420
 aagctaaggc ggtcgtcgtg atgctttcga cactgcttt gcacg 465

<210> 56631
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D3

<400> 56631

gaattcccgg gtcgaccgac gcgtacggag tgatctgatg cctagcagta cttgttttcc 60
 agtatgcggt gatgcgtagg ctgcaggggg gaggaatgtg cttgtatgtg tatgtgtcct 120
 gctgcaagtt gtcctttgct atttagaatg gaagaagaaa tgccttgttt ctctg 175

<210> 56632
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D4

<400> 56632

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cagccaggta gcgttgccat tgaggccgga gggcgggagt tgcagctcta caaatcgggt 120
gtcttcagcg gaagctgcac cacgaacctt gaccatgggtg tcgtcgcggt cggctacggc 180
gccgagaacg ggaaggacta ctggatcgtc cgcaactcgt ggggcccga gttggggcgag 240
gctggttaca tccgtatgga gaggaacgtc aacgccagca ctgggaagtg cgggatcgcg 300
atgatggcgt cctacccgac gaagaagggc gcgaaccctt ccaggccgtc ttcaacccccg 360
ccaacaccgt cggctgcccc tgacaatgtc tgcg 394

<210> 56633

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-D7

<400> 56633

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aaaaaaaaa aaaaaaaaat gtaatgtaaa ataaaaaaag gagagaaaga aaaataaaaa 120
aaaaaaaaa aaaaaaaaaa aaatccaccc atttttaaaa atccaaactt tccttcccc 180
tttcttcaa cccaatatt ttttttttct tccctcctaa atccatttcc tttcccttct 240
ttttccaact tcttccctcg aaaaacctct ttattcccca atttattcac ctttcttaac 300
ttcccc 306

<210> 56634

<211> 305

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-019-Q1-K1-E1

<400> 56634

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catcggcgga caccctacag gatccgaggg cgctgcncag tggatgccg agagggttc 120

gctatacggc tggcacaagt ccaacaacta cagcggccat tacttcatgt acctgtcgat 180
 caactctggg cgcccgatct gaatcggggg caacttcatg ctgcgttacc atggagatca 240
 tgctcgccaa cctcatgtac cattttcact gttaagtacc caatcacaag gaatacgggtg 300
 aatgg 305

<210> 56635
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-E2

<400> 56635

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 gagtcgaccg cacaccacat tgaagtacag gttcaggaag ctgggtggggc tgaagaacca 120
 gaaggaccag catttctcgg atctgatagt ggagcagaag gaggagctga agaatcgcg 180
 caaccagttg atacagacac tggagagctg tggctgggaa gctgccatcg gttgcggtgg 240
 catctcgatg ctggcgaagc ccaccgcgta catggggaaa gccttcaaag ctgctggctt 300
 tgacagcgag ctggacgcga gcaacattcg gga 333

<210> 56636
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-E3

<400> 56636

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 cgcacccggt cccactcgtg agaactgaca gcggggcact acgacatcac gtcgcactac 180
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 gtctagatgc tcgaccacga gcagccgtat gacgcgcagt gccatcccga ggcgcttggtg 300
 cagcaagtgg ccgtcgcggc gcgggaagtc ggcgctcggtc tggacggtga gaacgcgctg 360
 acgcgctact acgacacggt gcacgaccag ttgggg 396

<210> 56637
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-E4

<400> 56637

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tcattcaaga ataaacttaa catgcgtgaa tcgtgaaact ggagtgggtgg acccgaagaa 120
gttcagcgtt ctgggtaact ggcagcgtga ttactcaatg gaatacatcc taacccatct 180
caagaaagag atgacatctt cacagaaccg caagctagtt cagcctcctgg aagggacatt 240
cttctaaaga tggcagcaac tcatgtccat ccatgggtgac tcggaaacag cttccgcacc 300
tggttcctat attttatata tttagtctga tctcccagtt atctgtaaac caccgagatc 360
gagtgcagc agacttgggtt gattttacaat ttgcccggtg gttgctaatag atatgggatg 420

<210> 56638
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-E5

<400> 56638

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aattaaattht aaaataaaaa aaaaaaaaaa aaaagtaaag tataattaaa aaagggtggaa 120
agacaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aataataaaa aaaaaaaaaa 180
aaaaaaaaaa taaaaaaaaa aaaaaacgcc tcctttttta aaaattcaaa ttttataaac 240
ccttacttcc aatacattca tttttttttt ctgcccccta atttaaatta atttccccctt 300
ttttaaaaaa tattaatttg aaaaaacctt tctttacccc aatttaaacc ttttaaaaaa 360
aaaccctttt tccaattttt actaaattcc aaaaaacccc taaccaatcc cctttccaaa 420
aattttccca ccctaaatga aaaattgaac cccctttt 457

<210> 56639
<211> 485

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-019-Q1-K1-E6
 <400> 56639

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 ctcgggcgat cctccgcctt cgtcggcaag ttcggcgacg acgagttcgg gcacatgttg 180
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 cggacggcgc tggccttcgt gacgctcaag caccgacggg agcgcgagtt catgttctac 300
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 cgcgccaagg tggtccacta cggctccatc tcgctcatct ccgagccgtg ccgctcggcg 420
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 gtgcg 485

<210> 56640
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-019-Q1-K1-E7
 <400> 56640

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 ggatgaagga attcaagatc gctgcggcca aaggcatcgg catcggcgtc gacgtcgacg 180
 aaactgcgtc tccccgcacg gatttaaccg atttggttga tctcataaaa tccttctgag 240
 ctcatgacga tcgatctgtt ggggtgatgcc tactctgtcc atcgtgctcg acttgtcttc 300
 ctactactgt accactgtct gtgctcactt ccacgttcct gacggtgttg tgatctagcg 360
 tatcattgtg cgatc 375

<210> 56641
 <211> 308
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F1

<400> 56641

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tccgtagccg cggtctgtcg cacgtccctg ctctccctgg ccgcggccgt gctggcatga 180

tcacttgatc aggatcgtgt agtgctggcc aggggacggc gcctttgtga attgtgagag 240

ctcgtactgt gtctgtgtga ctgtctctgt ggccgtatga gcatttagcc ctggatctgt 300

gtttgttg 308

<210> 56642

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F2

<400> 56642

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tacaccactc acaatggcat cgtggggcga gggatgcat gttccgagct acgagtctgt 120

tagccgcaag tttcactcga agtgagagga tccagcatga cctgttccaa caactgatgt 180

gaagcctgca acggccctca gctgggacag ttactcccc acagaataaa aacctcccat 240

gtgggttcta gcgccccccc taattactcc ctctgcatgt atacgcaaaa catgtttttt 300

tttgtggtaa gaatcatcaa gccccttggc gactcgttta tgagtctcgc agcggcgcta 360

gattttatatt tatgtg 376

<210> 56643

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-019-Q1-K1-F3

<400> 56643

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taggtggact tggcggcaat gttcgaacga tcgaccttg caacgccgag gatgtcaagg 180
aaatctcggg aacatacggc gcatttgaaa gtgccactac gctgacctcg ctcaagctct 240
gtaacagcag cagaaacctg gggcccctgg ggggtcgaga acgggacgcg tt 292

<210> 56644
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-019-Q1-K1-F4

<400> 56644

cggaattccc gggtcgaccg acgcgtccgc atggatgaac aacatgatgg actttggctt 60
cccgtacctg ttgcagttca ttcgtgaatg caccgacgaag gtggatgatt gagtgaanga 120
caagattgag tcgcagaagg aagaaagagc caaagagaag gaggagaaag accttggtggc 180
tcagcagaac atgtatgcac agctgcttcc tctcgctttg cccgccccgc caatgcctgg 240
catgggtggc ccttcacctt cgatgggagg aatgggcatg ccttcgatgg gtatgccgcc 300
gatgccagca tttgggatgc caccgatggg aagctactga tttgggtttg cagcataagt 360
ggaacttcat tggagttgta gatgggtgac agtttgaat caatattctt cattgtacca 420
agaaactttt 430

<210> 56645
<211> 490
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F6

<400> 56645

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tgcatttacg ggtcaaggac cttatggaac ggctgtcgtg cctggcaagg ggggaggagc 120
gctggcctgg ctaccgctcg gctctagtaa cggaacagc tatgtctcac atcattgctc 180
gaagactgga aaaacatcaa gttatctcag ttgggtagag tgctgggtctg tcaactccata 240

agtcgcgggt tcgaaccccg ttttccccgc acgatctgaa acttatagaa tagaaggggc 300
cataaacagg atagtctata ccaattcatt tgggtgactt gaaataactt aattcgaaat 360
tgttccgtca agtataagaa attaataata caatgaataa ctactcaat ggattatacc 420
ttgacactta tttatcttaa tattcattcc attcatgcc a ttcttaagca aacacgaaaa 480
agcttatatt 490

<210> 56646
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F7

<400> 56646

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gggggggtcgc ctgagatcac agggacagtg gtgaaggcag tggctgtcgt cgccggcact 120
gatgtcaagg gcaccatctt cttttcacag gaaggggatg gtccgaccac cgtgactgga 180
agtatctctg gcctcaagcc aggcctccat gggttccatg tgcacgcgct tggcgacacc 240
accaacgggt gcatgtcgac tgggccacac ttcaatcctg ttggcaagga gcatggtgca 300
ccggaagatg aggaccgcca tgccggtgat ctggggaatg tgacagcggg agaagatggt 360
gttggttaatg tcaatattac tgacagccag atacctcttg ctggaccca ctcgatcat 419

<210> 56647
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-F8

<400> 56647

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tgggctcctg ccgagagctc accgagctcg gaccgtcgaa aggcgcaagc ccggtggaca 120
tgccgaataa cacatgcaag ctctgtctcc ggcgttcac cagtccccgc gccctcgccg 180
gtcacatgcy ctccattcc ctctgtcaaag ctcatgctga ggccgcggag gcagcgaatc 240
ggctgatctc ttctgcatcc tccacgtcca ctttcttcat cgccgccgac gactaggacg 300

tcattctcgaa gattcccact tccacccacg gactctaata gaatccgaat cgcagccttc 360
tgttactcga ttccagttta tcatatcgcg aaagctagtc tgaatacacc tcatcgta 418

<210> 56648
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-G2

<400> 56648

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aaaaaaaaag aaaaaaaaaa aaaaaaaaaag aaaagaaaaa aaaaaggggg ggcgctcttc 120
aagatccaac cttacttacg cctgcattct acgacataac tcttctataa tggcacctaa 180
attcaatta 189

<210> 56649
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-G3

<400> 56649

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ttcgtgtgtg gagaagctca agaagatggc tggcgcgtgt acgcaccgga gggaagggca 120
gcatgcgcag gaagaagaag gcagttcaca agaccacgac cacagatgac aagcggcttc 180
agagcacctt gaaaaggatc ggggggaaca ccattcctgg tatcgaggag gtcaacatct 240
tctaagacga tgttgttatc cagtttcaga accctaaagt gcaagcattc attcctgcaa 300
atacatgggt ggtagtgga gtaccccaaga caaaaagtc 339

<210> 56650
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-019-Q1-K1-G4

<400> 56650

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 tctgcaatac aatattcagt gccatcaggg caatgatang cagtgaaggg gattatgaca 120
 tcaggaaaacc atgcatcgga agcctatgct atgatttctc taatttggag aaatttctca 180
 acctcaaatac tgtcagagag agcctagggg ttggagatat agagtttggt tcatgcagcc 240
 caactgtcta tgaggccatg ctattagatt ggatgaggaa ccttgaagtt ggaatccctg 300
 aactccttga gagcgacata aaagtgttga tttatgctgg agagtatgac ctcatatgta 360
 actggccttg gaactcaaag tgggtaaact ctattgaatg gtctggaaaa gaagctttt 419

<210> 56651
 <211> 556
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-019-Q1-K1-G7
 <400> 56651

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 ggctgcaagg gcacggagcc tgggtactga cgttccagct tgaagaagaa cccaaagtgc 180
 attccccttc aactgggttc aaggaaggcg ccttggatgt ggaaatgcct tccaaagata 240
 naagaatgtg ctanngctc ttcccctgca aaagcgacan agccaatgcc aaccaaacgg 300
 tgtgcagccc ttcaacaagc caccacatca caagggcagt tcatcgcgta aaggcccaca 360
 ggaannaact tgtatttggc tctggtggta gcccgagcc gaaaaagggc acctgaaaag 420
 gaagcagagt gagcccaaga atagaagaac ccaaattcg cagcattcac agtgaaaagaa 480
 atactcactg aagggtgaa taaataggaa gacaatgtat tatcagtatt tccggtgacg 540
 gacattctca gggaga 556

<210> 56652
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-019-Q1-K1-G8

<400> 56652

attccctggt cgaccgactc atcctaaaaa aaaaaaaaaa aaaaaaaaat aagattttaa 60

aaaaaaaaaa aaaacaaaaa agacatgggt aacttagaaa aagctccaag ccatacaaca 120

aacccttcct aaaaaaacct atactataaa acaactccat tatccaaaat ttatcaacct 180

ctaaaaacaa cataaaaaac ttaaaaaccc atacaaataa cactttcttt tactcatccc 240

aac 243

<210> 56653

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-H2

<400> 56653

gaatttccgg gtcgaccgac gcggccgcgc acgtcatcgt ccgccagcgc aagctgtttc 60

gcttcaagga ctgagtctac atgtactgcg aaggtaatgc tggagtgatg gtgagcccca 120

aggcgagat taaaggatct gctatcactg gacctattgt caaggagtgc gcttaccttt 180

ggcctaagat tgctagtgcg gcaaagtcta ttgtctgata ccacctgttg ggaggctagt 240

tgagatagat ttcttgtgat ccattttaac cttttctgta cttaaacatt tgatgaaatt 300

tactcgttta atgtactttt ggaaaagact cttaggcgca c 341

<210> 56654

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-H3

<400> 56654

gaattcccgg gtcgaccgac gcgtacgcgc ttgcagccgc cgccgcgtcc gcctggttaa 60

gctcagcagc cgccgcagca catcgctctc ttgatctcag ccgtggcgga ggtggagcaa 120

caacaggaca cgccgaagct cttcaaccgc tggaccttcg atgatgtcca ggtgaacgac 180

atctcgctga acgactacct cgctgtgaac gcgacgaagc acgcgatgta cctgccgcac 240

accgaggggc gctactccaa gaagcgggtc cgcaaggcgc actgcccgat cgttgagcgc 300

cttacaaact tcctcatgat gcacgggccc aacaaccgca agaaggatcat tgctgtccgc 360
atcatcaagc ataccctgga gatcattcac ctgctcaccg atgccaaccc catacaggtc 420
gtcgtc 426

<210> 56655
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-H4

<400> 56655

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tgctgtaaag aggaagatgg aaggaaggag tgaggagcat gtgagttgct gtgctgctgt 120
acaaattaaa cttagctctt agagtgagga gaaagtaagc tgttagctgt ctgcctaaag 180
gaaagaaagg aaaaaaagaa gctggaagcc atcggcaccg tgtttcatgt gttggtatag 240
ctgctgtggt tctcctgttg tctgtctggc ctttgttgta acataaagct gaggcgact 300
agcctgcctt cgttttcaca gtttaagctga agttattagt atcagctttc ctgaactgct 360
tggtatgtaa tgtgactgtg tttcttactt gtactaatgc ttgtctcatg taatccaggc 420
ccctgatgtc tgaaatgttt aatctcaaatt tttcacc 457

<210> 56656
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-H5

<400> 56656

accggtcctg aattccccggg tcgaccgacg cgtacgccca cgcgtccgcg gacgcgtggg 60
ttctatccca tttggtgtaa tatttttact gctattgtca atggaaagcc gtcggttgta 120
tcccc 125

<210> 56657
<211> 499
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-019-Q1-K1-H6

<400> 56657

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cgtatctacc ggcggcaaag gcgctcttgg tccggcctcc ctgcggtgcg cggtacgaca 120
gtcgacagga tggcaatggc cacatcagca tcgtaccctc cacctcctcc attttaccga 180
ttgtacaaaa aatttgagca agatccctca tctgcaccag aacctccacc accaattgat 240
gaaccattca aagccttggg tgttgattac acaggagatg ttgtgattcc aagcttggag 300
agtcataatg tccgtcagct ttatccaaag ggtcccaata ttgacttcaa gaaggagctt 360
angaccctca acagagagct tcaattgcat attttgagc tggcagatat attagttgag 420
agaccatctc aatatgctcg tagggtagaa gatattacgc tcatattcaa gaacttacat 480
catcttctca attccttac 499

<210> 56658

<211> 501

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-019-Q1-K1-H7

<400> 56658

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gtcctttata ttggttaaggâ tgcgtggatt cgtagagaag attgggttaa aaatgggtgc 120
cacatcgga gtggcagaaa atataaggat tcctattttc ttcaggcgca agtaatgtgc 180
tactacaacg tataacagta tcttatttcc gagctacaca cgaagacttg cacttataca 240
ggttgttcga ccgtccaaac catcctagaa tatgattggt ggactgcgat taaattgcgt 300
acatgatgca tcagttctat gcatgctcgc tgctgtctgt tcggaagtca tcaactcggg 360
acctggacta agggccttgt cgttcgctca acccctatga aaaagtttg ctttctaaag 420
atgtagtaga agtactcatt tattccctgc caattgaaca tttcaaactc tcgtatgggt 480
gtaatgaaaa atcttgatgt t 501

<210> 56659

<211> 170

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-020-Q1-K1-A2
 <400> 56659
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 cagggtgaat ccttagaaac atctcttgga gagcttctag ccttgaggca ctcgatatct 120
 gccattcaag aagagtcaga gattcttcac ctacccatga tattggtgct 170

<210> 56660
 <211> 194
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-020-Q1-K1-A3
 <400> 56660
 acagttctat aattccccggg tcgaccgcac gcgtccgaaa aaaaaaaaaa aaaaaaaaat 60
 aatctttttt taaaaaaaaac aataaaaaaaaa aacaagagga ctttttttaa aaaggtgcgg 120
 cgcccccttt tatatttttc acctttcaat gagatccttt tcacctttta ttaacctttt 180
 ttttgccctt cttt 194

<210> 56661
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-020-Q1-K1-A7
 <400> 56661
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 gccgcgacgc tccctgctcg gaacagcctg cgttgctcgc ccacacgacg ccacgcacgc 120
 aggaggagcc agggcgctcg cccgtgccgc cgttcgcggg cgtggacctc cgccgccccca 180
 agggctaccc cgtggcggtt gccaaagagg agaggccggc gccgggcggc gacccgtgcc 240
 cgcggtgcgg gtgcggggac accaagttct gctactacaa caactacaac acgtcgcagc 300
 cgcgccactt gtgcaagtcg t 321

<210> 56662
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A8

<400> 56662

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atcgccagga ccatgatgaa caggtccatg gccaaaggagt tggccggcac cgtcaaggag 120
atcctcggca cctgcgtcag cgtcgggtgc accgtcgacg gcaaggaccc caaggacctg 180
cagcaggaga ttgatgacgg agaggctgag atcccgctccg cttgaagcca tccaagggga 240
cttccattgg tgctgctgaa gtgttggtgt tctgcatgct atcgatgtac ctttttcaag 300
caacgcgagc catctatttt ttttgtctag ctatgttagt gatatctggt gagagacctc 360
aatgttacca ccgtattctt gtctttggtg gatggagaga tttaagcacc tcacacacct 420
ttgtctt 427

<210> 56663
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-A9

<400> 56663

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acttgtggaa aaaaaaattg catgtaaata actgggttgt tgcggatctt aaagatccag 120
tgggatttat gcaatttttg cttgaaaatt tgcttctgtt tggcaatttt catgtaacat 180
aatttaattc acccggacaa cagactcccc ttttcttatt ttgggaaata ttaagcatgt 240
accttcaaaa aaaaaaaaaa aaaaagggcc gcccc 275

<210> 56664
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-B10

<400> 56664

ttccccgggtc gaccgacgcg tccgcgcaaa gctcgataaa aatgaggtaa tgaaagctgc 60
tgcaaaagct cgggcatcat cctcgggtct gcgaccaatg gatgcccgtc gtggatcatga 120
agctgatgtc atctccagcg acaatgccag tgtcaggagc ggcatgagtg gtgactacag 180
cggcacaaag gaatcaaaca tcgagatgaa actttctcca cttcagaact cataccccca 240
aagccttgca agccaggatg aatatgatac cggcacacca accgcaagca gtctaagcag 300
tccggtctac atccacaagc ttgcctctca ctctcagttc agtgcagcgc ctgcacctgc 360
gcctcctgaa agatttgtgc cagctatggt acggccaccc gttcctacca cacaataaac 420
caaccaggg ataccgctgc cagctgttcc cacaacac 458

<210> 56665
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-B12

<400> 56665
tccggaattc ccgggtcgac cgcacgcgtc cggctgaatg ttgtgcggga ggcgttttcc 60
cccgttatta gtagcgatct gcgtgctata tatggtcgct gaagtcaaaa ttggctctct 120
tttatttttt atctactact actactcatt tgcgagttag agatggctctg ggcacaccat 180
tcaattgcaa cggcctactg gtgtgttgcc cccaatgag ggctgtgacg attgcgccac 240
tacctcgtga gaaacatgat gtgaccgaaa 270

<210> 56666
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-B7

<400> 56666
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gccatcctac tgagtttgac ttctacctgt gtagccatgc tggcattcag ggaacgagcc 120
gccctgctca ctaccatgtc ctgtgggacg agaacaagtt cacagctgac gagctgcaga 180
ccctgacgaa taacctgtgc tacacgtacg cctaggggca cccgttcggt gtcacggggg 240

ccccgggCGT actatgctaa tcttgCagcc ttcagagctc gcttctacat ggagccagac 300
acctctgaca gCGgggtcact ggCcagcggt gcccgtggcc cccaccagg tgcggcacgc 360
atcacgagag gggcggggag tg 382

<210> 56667
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-B9

<400> 56667

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tggttacggg aggaagcctc aggttgagga gagctatgga tctgggtacg gcagcaggcc 120
gcanggtggg gaggagtatg gcagtgggtg gtatgggagg aaggctcang aggagaccta 180
tggtcctcgc gggtatggct atggcaggaa gaacgaggag cagagctatg gtggttctgg 240
ctatggttat gagaagaagg catctgagga ggatgaaggt gcctttggct ctggtgggta 300
ccggaagcca aaaccctatg gcgaggagac acagggttca tacggttatg gagaggaaca 360
gcccaagtat cagagtggcg ggta 384

<210> 56668
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-C12

<400> 56668

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caaggcgagg ggagcactcg gcggcgatgg gcggcgggcg cgcacatggc ggcaccacct 120
acaagggcta caccatcccg cacaacaagc gctggcacac cgtcgccggc aagggcctct 180
gcgccgtgat gtggttctgg gttttctaca gggctaagca ggatggtgct acgctcttgg 240
gtttgcgtca tccttgggat ggacatgatg accactctca tggtcatgga cacgggcatg 300
aggcatcatc atcgtcatct tcacattaag ttccttactg gctgcggacg atgcttggca 360

tggtccaaca gctaaagttt gagttaataa attctatcac cctgcatggg actcatgttg 420
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<210> 56669
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-C2

<400> 56669

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 ccacgctccg catgtaacgt tctcgcgcaa aaggcgggca cgacgcagcg tgagcgggtg 180
 tggcggggaa agcggatcgc attctgttgt gaacatcaga ggaataaagg agaaagtgca 240
 gggcgcagtt gcgcagtctg cggcaaagta ttttctgcgc gttccgtagc ctctgctctg 300
 tccagttttt ccgtcaggtg aaaacagagt agccactgat cgctgtcgag cttcccatc 360
 cgggtggccgg cgccaacagg gaaggtgcac ttgtagtagc tgcgcgggtt ctcgctcccc 420
 t 421

<210> 56670
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-020-Q1-K1-C6

<400> 56670

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 gagtaagctc aattcctata ggtggggaca attgatccgg ccgtgatgtc tactcactca 120
 ntgatatcat ggctctggcg aagaatgatg tttatgctcg catcgaactt gaacaagtga 180
 ccgtacaaaa tgctttggat gtgcaatacc aggtgcatgg ccgaagacag tgtcatactt 240
 gtttacagac gaggaccttg ctggaagttt tggagggatt gtccattcca ggagtgcgac 300
 ggcttggtgt tattgaacaa agtaccagat ttgtggaagg aatcatctca ttgagagacg 360
 tatttacatt tctccttgga tagcatgtgt atccattcca tacatgaaaa agcttgctgt 420

acttggttca aacgaaataa aatgcttaca aatgtgat

458

<210> 56671

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-C8

<400> 56671

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ggaggagggc aacaagagga gggtacaggt ggccaatag atctactggt gttgaggagg 120

ttgatgcaa gctgagttgc tgcgcgttgg ctttcttttag agatggcttc agctggtgtt 180

gccccttctg ggtacaagaa cagcatcagc accagcattg gtgccgaaaa gttgcaagat 240

cacatgaacg agctaaagat tagagatgat aaggaagttg aagcaaccat aattaatggg 300

aaagggaccg aaactgggca cataattgtc accactactg gtggcaagaa tggtaacca 360

aaacagacag tgtgtctacat ggctgagcgc attgtaggtc aaagttcttt tggga 415

<210> 56672

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-C9

<400> 56672

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tggatgaatgg tgacaaggga gtgggtttaca cccacaagga tcttcctttg caatgaggca 180

aataacctcc gttgtggtcg taacgaatgg ctggactccc cttttaagta cccttttctt 240

ttattccatg ctacaaagtt tgggtgctgta acaagcagaa tgcctattta gtaggcattg 300

atgtaatcag accattttgt cgtggtgttc cttgtcgtat aaaacatccg agacatctgt 360

attagaggcg cggtagctag ttgatacgcg attgttctgg atgaaatttg gatctgttcc 420

aaatgcatga taatgcatgt gtgatgaggt cct 453

<210> 56673
<211> 142
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-D2

<400> 56673

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aaaaaaaaaa aaatgggggat tataaaaagg ggggcgggtct tataaccaac ttaactccgc 120
ccccccctaa aaccctcttt tt 142

<210> 56674
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-D5

<400> 56674

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catgttttgt ttacatatga accctactca acgggggtctc tatacaagggt gaggcggtat 120
gttcaatgct gctttcatca tacttatcat ctcttctatt tctttcacca tcttccctcc 180
cctaattatt taaacctctt tttttgttaa aactctatct ggtgttcttg ccttaacctt 240
gttttcttga gtgcacattg ccctctcttc ttccaacacc tttgttgcat tatacaattc 300
taataagctc attt 314

<210> 56675
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-D8

<400> 56675

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gaacaacgac tcgccgctca acacgcaggc ggccggctctt tgggcgaacc aggaagagtt 120
caggaagatg gtggagaagc tctacaaggc cgccgcgtat aagacagcac acggcgcaga 180

tgccgcctca gggtcttcaa gcaccgatct cacttgatc gattgacgtg gatgggttttg 240
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 agcctggcga ttctgtaatt gtcctcttct gaaatgttga gagattcatt tttaaaaaaa 360
 aaaaaaaaaa aaaatatttt taatttaaata taatttattt atatataaat ttatttatta 420
 ta 422

<210> 56676
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-D9

<400> 56676

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 ggccaacccc accctaccgt gagtgaagcc ctcaaagagg cttgcttgca aaccttcgat 120
 aaagcaatcc acatataatt tctcattttt tgtgtccaaa ctccaaagtt tgtggtaatt 180
 ttgggtctgt tggaaaaaag gcccctgatt gtcattttgt ttttgcggc catactgtga 240
 attgaccctt tgagttgtcc atcttagcgg ggttttgtgc ttccttggct tggtttatcc 300
 atccaaataa taacctgata ctatgtttta cattttatgc ccatgaacca ttgatggata 360
 tca 363

<210> 56677
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-E10

<400> 56677

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 tgtgcgccat ccatgctaag cgtgtgacca tcatgccaaa ggacattcag ctggcaagga 180
 ggatccgcgg cgagagggcc taatcgccac ctcaaacatc gtgacaaaaa catgaagtcc 240
 tggggttatt gttaatctgg tgccattgta aggacatatg agtagggttt gttttgtgga 300

tcgcaagttt ctcttctgct actgttgctg ctacctttgc tgggtgttatt gctaggggtcg 360
aatacttaag ttaactatgc gctgacagtc tggactagca gtgttatgtg cgc 413

<210> 56678
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-020-Q1-K1-E12
<400> 56678

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tttctggtgc ttcttacctca gacctgatag aggcgttgcc gaaaaatcca cttacatctg 120
taaataggac agttaatggc agttttggtc aaccatccaa tgctgggggt gatgtttatc 180
ctgtggaatc ttacgagagc ttatcagtga accatgtact tgatgctcat tggggtgttc 240
tggatgatga tgatgcgact ggacttcgct cgcatactct ctccatcctt gtgaatgact 300
gtcctggtgt cctcaacatt gtaacaggag tctttgctcg caggggctac aatatacaga 360
gccttgctgt tggcccagct gagaaggaag gcatttcgcg gattacaaca gttgttcctg 420
gtactgttga atccattgag a 441

<210> 56679
<211> 327
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-E7
<400> 56679

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tggtaggcaa caagaccaag acccctggac ctggtgctca gtctgctctc agggctcttg 120
ctcgttctgg gatgaaaatt ggacgcattg aggatgttac cccggttccc actgacagca 180
ctctcgtttg tgaatacctt gtggatccga cagtcaattt tgtgccgtaa attaattggt 240
aatttgctgc ttcgagtana aaaaaaaaaat aaaaaaaaaa aacattaaaa ataaatacaa 300
attgaacaac aatcaaaaaa aaacaaa 327

<210> 56680
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-F10

<400> 56680

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gatatccccct tcttcacacct attctacgtc tggatcttgc tggtcgggac ctcaccgact 120
cgctcatgaa aattctcact gagagggggtt attccttcac aacctccgcc gagcgagaaa 180
ttgtaaggga catcaaggag aagcttgcgt atatagctct tgactacgag caagagttgg 240
agactgccaa gaacagctcc tcagttgaaa agagctatga gctacctgat ggccaagtaa 300
tcaccatcgg tgcagagaga ttcaggtgcc ccgaggctct cttccagcca tccatgattg 360
gtatggaggc tgctggaatc catgagacaa catacaattc aatcatgaag tgtgatgtgg 420
atatc 425

<210> 56681
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-F6

<400> 56681

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tatttatattc aaaaaataat ctataattac aataagctgt nttttaaaag aggggaagggg 120
gcacaaacat accaaattat caaacatatt acagtgcctc cttattcaca ttctaccagc 180
cctcttttta caaactttgc cactttttta atcccctccg tccccaaatt aaaacacctt 240
tcaccacata tctctttttt cctccaaactt aaatacctat taggccccca cttttttacc 300
tt 302

<210> 56682
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-F9

<400> 56682

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ggactacata ataggttctc ctaagtcaca tactcacatt gtatacattt accttacaga 180
gtcttactta tgttgggtact aatcaaggat cttttatatg taactccaac gccttgccctt 240
tggtggaggc aagggtatctt cacatgtttc aaattgccat gctgaaggag ctaacgaaaa 300
ccaactgtgt tccacagata ttagaacctt tgagatcctt cttcgcacgt atgaagtacg 360
agacgttgct ctgaagagcc tcacctccga tgaggcttat gtggggcctc ttccgcagaa 420
aagaagaatg cccacaaccc caggtgaaaa cacggactgc ccacaaagga c 471

<210> 56683

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G10

<400> 56683

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aagagtctct cttcgtaatg atagctatat gtcgggtgtt atcctaccag gcaaagttga 120
tccattgccc aatctcatca aagtacacta gtttcctcat cctccatatt atcttacact 180
caccctcgac cagcacatac actagatcaa tcgtcatcat ccaccatgcc atcaaact 240
tgctactcaa tatcatccac aaaatacccc aactccacaa tatctctcgt taagaacacc 300
gcatggacgc ctactcctag cacaagacca tctcctattg tcgcatcgtc tgcgtgtcca 360
actatcataa tcgttt 376

<210> 56684

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-G2

<400> 56684

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 tttgacaatt ttaagtaata cagactta 88

<210> 56685
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-020-Q1-K1-G4
 <400> 56685

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 gcttttaaaaa aaacccaaaa tcctggtgat gtctgcccgt aggtgtacga ctgcaggagc 120
 agtgtgttctt ggtgatgcaa ttaataagca tgatgttctt catgttgaga actgcaacac 180
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 ggctgaaaat gtttgtttta gtgggaatgg agttagtcaa ggtggccttc cagaagagtt 360
 agaggtatga acaaggatac atcgtggaaa tcattactga ggatcagtgg cgtcaacgac 420
 acaaaaattga aggaagattg tggagataga caagttcta 459

<210> 56686
 <211> 124
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-020-Q1-K1-G7
 <400> 56686

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 ttaccctttt aaatcgggcc tccttccccg ccctgggtga gattaaagcg gtaaagatcc 120
 ccgt 124

<210> 56687
 <211> 473
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-020-Q1-K1-G9

<400> 56687

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aaacgattag atgacgagag gatgatgcta tatttatcaa gtccgcagcg ccctgcctct 180
cttgtgacgg cccgcgacac aagtgtggtg attgacagtg acatcgctca ctctaagtta 240
ggtttttggtt cttccctggc ccccggaaat catcacctgg cgccgccaca ttcgaatgga 300
gatggatctg ctggcatcat cttgcttcct cttttgtaaa gcttttcttg ctgagtttag 360
tggtacctta gattgtcgtc catttctgcc ctgttctccg ggcagctatt tgtagtgtaa 420
aaatatggtg gcgtgctgga tgggtgttatt tatgcgtgcg tggcctgtca tga 473

<210> 56688

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H10

<400> 56688

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caaaaaaaaaa caaaaaaaaaa aaaattgttt ttttttaaag agtgacgtag atacaaaaaa 120
ctaaatacaa aacatcaaaa ttcctcttcc tttttattta ctccaacctt acctttcctt 180
ccatccacca tcattctttt ttattcttta tacctacatc catttcactt cccacttttt 240
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<210> 56689

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H11

<400> 56689

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caaggcccg gaaaagctgc tcgccaagga ggctgcgag cggtgacact agattgtcta 180

ctgctgtgtc tgccctgtag tttgacgggg aagaactgat gaactcgtat tgtgggttttc 240
cgaatctagt ttcatatgtt tctgtccacc ataccatgtt tagaagcttt gcaagacaga 300
gtttacagtg tttatgttat gcctcagatc c 331

<210> 56690
<211> 69
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-020-Q1-K1-H12
<400> 56690

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<210> 56691
<211> 438
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-H2
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accgttgaaa acagttgcct cctacaggga gaaatgggat attatgaagc acgacgggtg 120
cggcttcgac aaaatagagg ctcaggcgag ggtttctcca ttatggaaaa gccatgcagg 180
gccaacactc taaaatggac atgacagctc tattaacagg taacgacgct ttcaaactca 240
cgccgtcata tttccgttac catatactg aggctgtct gctcttgatg tcgtccacgc 300
ccaaccgagt ctctgccaaa ccaaacccta gccgccgcac cagagcagcc gcaactgaaaa 360
cccatggat cgaactgtct cccgcgtcgc tgttgcagag gctgtagatg ctgcacgtgc 420
cgcggtgtt gctgcggt 438

<210> 56692
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-020-Q1-K1-H6

<400> 56692

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nacgaaccct tatccccgc atctcttcat gtcctgttat gattgcccac ttccagggtca 180
gggcccaccg ctcccatggt ctgcttccac agcatctcct cctgctgccg ctctcgtac 240
ctaatttcag gaatgcgatt catggcttat ttctctcacc tattggataa tggacttttc 300
ctgttttaaa accaatgtac tgtaccccc tcatgttaaa ttttagtac aaattttggt 360
tcgttcttta c 371

<210> 56693
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H7

<400> 56693

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ttcctcagcc agaagggcgg cgccgacaag aggaaaatgg aggagcataa accaaaggag 180
cagaggccca aggccaacga gaacaagcct gtgatgaacg aatgagtatc tccagaagct 240
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tggcaaacgg aaatgaaact tgaactacct atggtactgt catcaatttg agacccccat 420

<210> 56694
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H8

<400> 56694

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 tcgacttcag tactctccaa gtttctagaa tcgacttggt ttttagctat cgttttcatt 180
 ttggtcgttt tgccacctta ttcgatgttc gtccttagc tataatcctt ttgtaatggc 240
 tttactgtga tgcgagggct caccgatgg cgtgtaattt gagcacacca agcttaggct 300
 tcccttgca aagggtggaa gcctttctat taaaa 335

<210> 56695
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-020-Q1-K1-H9

<400> 56695

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 gagccggcgg gaaggcgaag aagggcgcg cggggcgcaa ggccggcggg ccgaggaaga 180
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 ccgtcctcga gtacctggcc gccgaggtgc tggagctggc cggcaacgct gccaaaggaca 360
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 <211> 459
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 56696

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 agttttaagc ccagcagaga tcaaggattt cttggaagag gtggagtaag ctgtctgttg 240

atgatactag ttcagacaac aatagcagcg tcacttatga gcagccagcc tgaagattgt 300
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<210> 56697

<211> 100

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-A10

<400> 56697

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<210> 56698

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-A11

<400> 56698

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 tggtttgttt gtccagaggt gtgtagaaat actcaacatg gaattgtgat gcttaaattg 180
 ttgagcttga caggacatta tattgtgcca ccaactcgcc atgggtctgga agttgtaata 240
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<210> 56699

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-A2

<400> 56699

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aggactagga gggtgacgag tgatgtagga cggatgaaac tgtgtccgag tgtttgagcgt 120
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cagtagatta gtgccgtctt ctgagtagtt tccttgcaag tgtcgtcccg tccttgaggt 240
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tgtttagcct gcagtctgta cttgccccaa gcatttatgg tgctgtttt aaatctcaga 360
tcacaatata cgtttgtttt aaa 383

<210> 56700

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-A3

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acctaaatta aattaat 77

<210> 56701

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-A9

<400> 56701

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agcaatggga acaagctgat cctctacggg ctctacaagc aagccacggt tggagatgtg 180

aataccgatc gtgcgggcat attctaccaa aagggcagag ccaagtggga tgcttgga 240

gctgttgaaa gcaaatcgaa tgatgaagg atgaatgact acattac 287

<210> 56702

<211> 474

<212> DNA

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<400> 56702

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ccggcgactg gagggccctcc gccaccgacc gcgcccgggg gagggctccc ggatacggcc 180
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<210> 56703

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B2

<400> 56703

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tactggcttc tgacgagtta tcttatctat ctatagtatc gtgataccga aactattgt 300
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<210> 56704

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B3

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tcgttattat ttatttggag ttatggtttg cgtttttttt gtgtgtgtgt gtgtgtgcag 180
gaaatctgtt gccaaagctcc ttttgccccg acgtttcatc cataacatct tcatcgttct 240
cagcgttatc actggattcc agaagtgaag aatagcatta atcagagtca taccatgaca 300
ttgacttata aatgggctgc ggatatctgt acagtacaag ttgaagcact tttgaagccc 360
tcttctgtta cacacgctag cagtgttgta taatgcttgt cttctgcttg ctttttgact 420
ccaaacttgc agttttgctt tttgtaa 447

<210> 56705
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B4

<400> 56705

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acccggaat atcttcaact cttgaagtgc actgttgccg aagtatagtt actttcagct 180
ggaaaggatt tacagactat tctgactggg acaattgctg taaattgtta taggatttgc 240
aatgtgatgc ctatTTTTTT aatagagaac aaatggagtg agataa 286

<210> 56706
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-B5

<400> 56706

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tccaagggaa agctgatcat catcgcaaac aactgcctc cacttaggaa gtctgagatt 180
gagtactacg ccatgctggc caaagttagc gtgcaccatt tccacggaaa caatgttgat 240
cttggcactg cctgccgcaa gtactacagg gtgtgctgcc tcagtatcat cgacccaggt 300
gactcggaca tcatcagtac caccctggc acccaatgag ccagccccg aacccattgc 360

agctgcttcg cctttctcaa aatgagatga gatgtatcgc tccggaccta tgtccggttc 420
 cttttttatc ttttagctat gtaaattttg ctaccatgtg gccatctacc atac 474

<210> 56707
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-021-Q1-K1-C10

<400> 56707

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 tcctccacta ccagagcatg cgcgttgccg cgacccgagc cgccgccgcc gctcaccctc 180
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 cagccatggc cggccacgtc ctctggcgccg tgaaggagaa cccagccgcg gccaacagcg 300
 ccgagtccga cgggctcggc cgcttcgccg tcnacgagca caacaggccc gagaacgcgc 360
 tgctggagtt cgt 373

<210> 56708
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-C3

<400> 56708

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 ttttccgccg cagcgatggt gtacgtggat tcctgggacg agttcgtgga gcggtccgtg 180
 cagctcttcc gcgccgaccc caacaccacc cgctacgtga tgaagtatcg gcaactgccag 240
 gggaagctcg tgctcaaggt cactgatgac cgcgagtgtc tgaaattcaa gacagatcaa 300
 gctcaggacg catagaagat ggagaagctc aacaacatct tttttgctct gatgactcgt 360
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<210> 56709
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-C4

<400> 56709

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ggtcgacaca ggcattggtgc tcgagctact tcatctggtc tcagaataaa tctgcttttg 180
tggtgccgga gctctgtgtt cagagagatg aagaaatacc agaaggattt tccgagctgg 240
tgtggtgaat gccagcgcga aaagagggaa aggagagtc agtgtgttaa agcaacgaag 300
atggcctttc tcaggggttc tggaggtgca gcgatttaat ttgtacgtag gtcatttatg 360
ttatatactg ttttgcgtca tactgaactt catcgtttag gacttgacag gggcattgta 420
tcgatggcca gctttgtgct aatgcgttta ttggtgcat cccaagtgtg tgtaa 475

<210> 56710
<211> 376
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-021-Q1-K1-D4

<400> 56710

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ggacgagcgt cttcctgtgg gggggaatgc cttgtgtgcc cacgcctagg ttctctgctg 120
aatcttccat ctctcttccc ttcaagactg ctactgctg cactgctctg ttatctgaac 180
ccagaacttt gtgtactcct gtaccgagct gtgtgtatgt tttttttttt cttccatcgt 240
gtttgttgca agggttcccc tatectttta tgcgttgnga tcgtggcang aaaaggcaga 300
tatcatgtgg aaaccgtggg ttatctatca gcttggattt tcaatccaag gtggaccoga 360
ttcaagattt tttctc 376

<210> 56711
<211> 443
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-D7

<400> 56711

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ggacgatcca gaggatttgg ttttgtttct ttcaggaacc agcaggatgc tcaaagtgcg 180
ataaatgact tgaatggtgt gttctctagt tccatgtttc taacttatgt tccattttga 240
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caggcgttgc ttgacatttg tactttctat ggacagtatg ccatgttgaa taaagtattt 360
ttggcatgac aaatataatt tatatatatc tttttgttac ctatttgaat acgtatgaaa 420
aatgggcggc cgttttagag gat 443

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<210> 56712

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E1

<400> 56712

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tcttgaaact aatggaacag ggctacgcgt acgtgccgtg aggcgtgtgc atgtcaggaa 120
tgggccgcca tgtttctttc gaccaagctg tagcgtggaa ggtgctcggc gaggatagca 180
acatccactg cctggcggtc tgcttcgtca actggtcctt cgtgtgactg aagtccaacc 240
cgtcgggtgg ttatggcgag ctgaccatt tttttttgt atggaaaatc atcagctgtg 300
acaaaaggca tatgttgcat gcactagttg aagaaactgg tccaattgct tttttggtca 360
aaaaaaaaa aatttataat tataatttat ttt 393

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<210> 56713

<211> 374

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-E11

<400> 56713

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aaatgaactg anggagcagg ccaaagctgc tgctcaggca ggtcttgagg agatggatgc 120

tgactaagaa acaggacgat ttgccagac ttggtgtttt tgggtgctgtt gaaatctccg 180

atcccttttg ggtgaccacac tggacatggc caatttgtca caatttatta ttttgacca 240

tgatcatgtga aactcctttc gttgaagtct ggtatctaga ttgacttgta tcagagctgt 300

ggtttacgca gactggattc tggagtactg gactgggtgt gtgtatgtcg gaactgtgca 360

tctgactttt agct 374

<210> 56714

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E12

<400> 56714

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actcgacagg ctgcagctac gaccccagcc aggggctaga gcaacgagaa cgaatgagct 120

agtagccgac cgcgtatctc catcatggcc gagctggtcg cgaggcacgg acacgagctg 180

cagcgggaca gccagagcac cggcaggcgc atcgcggtgg gctgcatgcc ataccgcgtg 240

cggtgcgact gcaagctgga ggtgctcgcg atcacatccc agaaggggca cggcatgatg 300

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<210> 56715

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E2

<400> 56715

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gagtctgaga agtgagagaa ataaatgaca agtgctgttt accgctcacc caattttaac 120

caatgccacg gtgatacgat tatctctgct aaagggataa ttgtttcaac taaaccaaac 180

accacagttg gaggtcaaat ccttggaagg caatattgtg aagttattgt aatttgtgtg 240
 ctaaaacgag atacagtttt gcctcgccct ggagtgatgt cgttgtggtg cttttgtgac 300
 tgatcatctc tggagctttt gtgaatgac tagctagata tctgtaaag atctagttgt 360
 gaatgatatt ataattgtga tgctttt 387

<210> 56716
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E3

<400> 56716

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 aagcaaccgg agtaacactg taacagcgaa atatttgggg acaaaagggt atactgtgtg 120
 tgagcaaaaa ggggtgtattg ccttgtgcgt atgttggcgc acttcatgct gaaaaaaaaa 180
 aaaaaaaaaa aacaaaaaat 199

<210> 56717
 <211> 395
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-021-Q1-K1-E4

<400> 56717

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 acggtcggng tggaggtggt gcgcctggct ccacacccca tgtacaagcg cggggagcgc 240
 atcaagaaga agtaccaggc gcacgacccc gacaaccagt tcaaggtcgg cgacgtcgctc 300
 gagtccaac cctaccgtcc catctccaag accaagcact tctcgccat cccgctcccg 360
 ccccgcgaca ctcgcccgat gtctcagctc ctacc 395

<210> 56718

<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-E7

<400> 56718

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tttttttttt tttttttttt tttttttttt ttttaaaaaa accttttttg aaaaaatttt 120
aatttttggg aaaaattcct tttggaaaaa ttttataaaa aaatcaaaaa tttcttgga 180
atgaaaaatt tttaactttg gaacttttaa agccaattta aaaaagggga aaactgggtg 240
gtttttcccc ttttatcccc 260

<210> 56719
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-F1

<400> 56719

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aaaggttcca tttgatgagg cgatttgaag aacggagtat ataaacctgt acataactct 180
aggatcatgca atgcaagtgg ttgcgatcgt ctgagtatgt gcagggtgcag catttatgtt 240
gttggtactt gggatgatgg tagcaggcat atgcttgggt ag 282

<210> 56720
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-F4

<400> 56720

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tcacaaggaa catgcttgca aatgaggggt tccgttcttt ctacaagggt ttgtctgccg 120
gattgctgag gcaagcgacg tacacgactg ctcgtcttgg atcctttagg gttctaacta 180

acaaagcagt tgaaaagaat gaagggaagc cattgcctct aattcagaaa gctttttattg 240
 gtctgactgc tggagcaatt ggtgcttggt ttggtagtc tgctgatctg gcactcatta 300
 gaatgcaagc cgactcgacc ctgccagctg cacaacgacg caactataag aatgctttcc 360
 atgcactcta ccgtatcagt gctgatgagg gagtccttgc gctttggaag gtgcaagtcc 420
 aacttggtgtg agagctatgg cactcaatat gggatatgc 458

<210> 56721
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-F7

<400> 56721

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 agaggcatgc acgaatctgc ttccaaatgt tgtgtgtgaa tacttgtaca atctatctga 180
 aatgttcaca aaattctata ccaactgtca ggtggtcggc tcaccgtagg agacgagccg 240
 actgttgctt tgccaagcga ctgctgttgt catgcgacag tgcttcaatc tgctagggat 300
 caccacagtc tacaagctgt gatcggctgc atgtttgaag tttgatttat acattcaaca 360
 tcgctttac 369

<210> 56722
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-G1

<400> 56722

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 ttttgaagaa taccgatctt tacagggatt ttgttactct tccacggaca atcactaact 120
 acacaacccc ttctacacct accaagaaca gcttgtgtac aagatcat 168

<210> 56723
 <211> 418
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-021-Q1-K1-G2

<400> 56723

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ccgtctcctt ggtcctgggtc tcaacaaggc aggcaagttc cggaccctgg ttactcacca 180
ggaatccctc gaatccaagg tgaacgagac taaggcaacc gtcaagttcc agtcaagaa 240
ggtccttttg atgggcgtcg cgcgcggcaa cttggcgatg gaggagaagc agatccagca 300
gaacatccag atgagcgtga acttccttgt ttcccttctg aagaagaact ggcagaatgt 360
gagatgcctc tacgtcaaga gcaccatggn gaagccatac aggggtgttct aagtatgc 418

<210> 56724

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-G4

<400> 56724

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gtaatgagct tccaccgcga cgccaaaaat gcaaactttt tgatcaagga gggtgacaag 180
gtgaggaagc tcgcgctgca gtacgtcgag gcattctcagc agaagatcag ttgagaccct 240
ttaccggatt tgaaaaatgt gatcacaata gctgccattg tttcctcgtg ctggagcaag 300
caatccatgt aaatgactgg gtgtgcggat cacttggtca acaaccgtgt acaggccacc 360
ctttccgtaa atacatctgc ttatgcattt tgac 394

<210> 56725

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-G5

<400> 56725

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 aaaaattttc aaaaaaaaaa aaaaaaaaaa agaacaaggt caaaaaaaaa aagaggaaaa 120
 gaacaaacaa ctataaaaca tcatacactct aaacactcac gactctcaat gacaatctat 180
 ctaatcatat acagaaaata tcttcaacaa cctcagccac cctctactaa 230

<210> 56726
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-G9

<400> 56726

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 tgaggctctg aggagccgtg ccgacgagga gaagatcaaa tacgagaaga gcatcgggggt 180
 caccagagca atgaccctga ataacctgca gactggcttg cctaactgtt tccaggcgat 240
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 ggtttttagta acaatgata 379

<210> 56727
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-021-Q1-K1-H1

<400> 56727

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 tgattcatca actacgatta ccagagtggt ggtggcgaca caatcatggc gctgcccgtc 120
 cagccaatca tccgtgcccc agctcacttt cagggtagc atgtcatcct ccagcaacct 180
 aatacccttg ccctaaagtt ctgtgcctac atctacgtac cgatggatct atcctttgta 240
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<210> 56728
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-021-Q1-K1-H10

 <400> 56728

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 cttcagcgtc cccctctgct cgcctaattct ctgcgcgagg ccttgccggt gccgcagacg 180
 gccatgggtc tgcgaagggt cccttgtgga aagatccgtt gagcccgagc aagtggaagg 240
 aagagcactt tgttctagca agcctctcaa tgtggggggg tattttttat ggtggttaca 300
 agcttttttag tggaaagaag gaagccaaga ctgatgcggg atcaccacag gcataggtgg 360
 cggagatgga gttgtaccca tatctgaggc ccggcaacaa tgttaaaata aaggaatgct 420
 tta 423

<210> 56729
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-021-Q1-K1-H4

 <400> 56729

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 aagattgcat cttttttata tatatagaat cgctaaatta tgaaaacgct atgtgtgttc 180
 tctgtgcaa acaggtaccg cgggtgttgg tttcctgcag ttctgcaacc tgaacagctt 240
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 caacgagtac ac 312

<210> 56730
 <211> 81
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-021-Q1-K1-H6

<400> 56730

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ttcgatttca acatctacta a 81

<210> 56731

<211> 290

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-022-Q1-K1-A12

<400> 56731

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cggaaagcaa agaaccagac acggggggcca aggcgggagg cgcgcagcga agcccgggca 120

cggcagaacg cggcgccgaa gacanggcaa gggcgcccng agaacngnga ggcagcgcag 180

aaggcccngc gggngcgcgc aaaggccaac gcggggggccc agcacggncg cnacaccggn 240

gagggcgaga gcgangaagc caagaaaggc angaccaga agggcnacac 290

<210> 56732

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-A2

<400> 56732

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ttaaaaaaaaa aaaaaaaaa aaaaaaaaa aagaaaaatt aaaaaaggga aaagaaaaaa 120

aaaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaaat aaaaaaatac tataatataa 180

attaaaataa attaaaatat ataaataaaa aaataataaa aattaaataa attaaattta 240

taat 244

<210> 56733

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-A6

<400> 56733

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ttaccaaatt taatcctttt gaataaaatc cttttttccc aagtggctt ataacaaaaa 180
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<210> 56734

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-B2

<400> 56734

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gaacaagtcc gacacaaacg aacaaggcct aagccttctg tttaacagtg gtcagtgggg 180
gaggctgcct cggcgtcctt tggagtggca tgtagactct ggaagggctg gcgctgtggg 240
gaatgacgtg ttctgtggaa agccttagct ctgctttggc tggaatgcta ccttgtgtat 300
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<210> 56735

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-C3

<400> 56735

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tggcggcgaa ggcaatctcg agccccgtgc cgggtggagt gtacccgacg ctggccgctg 180
tcatggatc cgtaggctc atgttcaccg cctccttctt catttatgaa gcaacttcat 240

cccgaggag ccgtagcctg tcaaaggaga tcgcaacagc agttgttgct tctgttttct 300
 tgggctttgg gtctctgttc gtgcttcttg caagtgggtt ttatgtctga tgactggcta 360
 tgggccgtgt gtgcttgtgt tctgcatccc gagttgtaga cttgggttatg acagatcctc 420
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<210> 56736
 <211> 172
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-022-Q1-K1-C6
 <400> 56736

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 aacaaaaaaaa aataataaca cgctcatgtat atttataacg gagctctgct ccactcatat 120
 acaacacaat catatatctc ttaactactt ctatccatat ctcaaaataa at 172

<210> 56737
 <211> 466
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-022-Q1-K1-D3
 <400> 56737

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 tggaggtcct tcaccgtgcg cgctgtctc ggcaaggccg ccgggagcgc gccgccgtgg 120
 caatggctgc cagcgccctg cttgccggcg gtgccatggc ccatgaggtg ctgctgggcg 180
 caggcgacag cgggctcgtc ttcgagccca gccagttcac cgtcaaggcc ggcgacacca 240
 tcacattcaa gaacaacgcc ggctatccgc acaacgtcgt cttcgacgaa gactaagtgc 300
 cgagcggcgt cgacgccacc aagatctcgc aggaagagta cctcaacgcg ccaggcgaga 360
 cctacttcgt cacccttacc gtgccgggaa cctacggctt atactgcgaa ccgtattaag 420
 gagcctgaat gtgtcggaag atcaccgtca actaattaag ctagct 466

<210> 56738
 <211> 308
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-022-Q1-K1-E11

<400> 56738

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ctcgnaaaaa agctagagac gngngggang nggggggana gnagcagggg gnnatatata 120

ttcagttgtg tgtttactat ttaatgagag gagtgaaaat aatagtacct gtaccagtct 180

gtgtatggtt attacttcca aaaaaaaaaa aaaatttata aattttataaa aataaaaaaaaa 240

aaaaaaaaataa aatataaaaa taaatataaa agaaaaatta aaaaaaaaaat taaattaaat 300

aataaatt 308

<210> 56739

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-E3

<400> 56739

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aataaaaaaaaa aaaaaaaaaa aaaaaaagaa aagttaaaaa agaaaagggg gaaagaaaaa 120

aggacagccg ctctaaagga tccaagctta cttacccttg catacaacgg gatagctctt 180

ttataggtcc aacctaaatt caatt 205

<210> 56740

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-E4

<400> 56740

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ccttccgccc gtcgccctcc atctccgggc cgggtgcctct cgtttgtggt ttcaataatc 120

aagatgagcc gtggtggttag tgccggtggt ggtcaaagtt ctctgggtta tctctttgga 180

agcggtgagc cctccaaacc agcagtggca ccagctgcaa gtgctccacc tgttgagaaa 240

ccatctgctg caaagactga tgcggccaag catgttgctg ctgggggttac cagccaaacc 300
aataactacc acagggctga tggtcagaac actggcaact tccttactga ccgtccttca 360
accaaggtcc acgctgctcc tggcgggtggc tcttccttgg gctacctgtt cggtggcaac 420
tgatgcccgt gctggtgcgc tcaccaaagt ta 452

<210> 56741
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-E8

<400> 56741

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ccgcttcgca tcgcggaact agccccggcg ccgatgcacg ggtcggagct gcgcgtggct 120
taccagggcg tgcccggcgc gtacagcgag aaggcggccg ggaaggcgta cccgggctgc 180
gacgccatcc cctgcgacca gttcgaggtg gcgttccagg ccgtggagct gtggatcgcc 240
gaccgcgcgc tgctccccgt ggagaactcg ctgggcggca gcatccaccg caactacgac 300
ctgctgctcc ggcaccggct ccacatcgtc ggggaggtgc agctccccgt gcaccactgc 360
ctgctggcgc tgcccggggg gcgcaaggag tgcctgaccc gcgtgatcag ccaccgcgag 420
gcgctggcgc attgcgagca cacgctcaca ggcac 455

<210> 56742
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-022-Q1-K1-F10

<400> 56742

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accataggta tgagaagagg cactccaaca ttcttgetca catctcccga tgcttccgtg 120
tgaaggaagg tgaccatgtc atcattggcc agtgcaggcc cctgtcaaaa actgtgaggt 180
tcaatgtcgt taaagtcatt ccagctggat ccgcagctgc tggaaagaag gccttcacag 240

cagcctgagt ttatagacta tgttccatga gtagtctata gaatgatgtc tttttaattc 300
 aaaagaaatc tctcttctag gctggtgctt ttcgactata atttgagat tgttccgtgt 360
 ccgtgcaatc atctgaacat gtgactactt attgtacctt gtcgtgcaaa gttttgctaa 420
 gatctctagt gtttcatggc t 441

<210> 56743
 <211> 285
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-F11
 <400> 56743

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 gggacncagg agcnagggng angngagcng aaaaaaggca nngnacgcaa cgcaagagca 180
 gcggagcnc naccacagcn ncnnaaaccc cccacaccag agaacaaagg agggcaaacg 240
 aacnaggagg cngnanngan ccancagcag cncnccgnc ccgcg 285

<210> 56744
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-G12
 <400> 56744

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 ggcgccgacg cagccgaaga cgggccgcag cgggggcatc aacaagggcc anggcgacac 120
 caagcgcgag ctgccacngc gcccggccca ccgcaagggg aaagcaacga agagggngac 180
 caaggncagg ggcccaaaca gagagggngc cggctgggca ccgaaagaga agcggancac 240
 cgagcncnag aaggngggca aggacaagcg cgcncngaag cngccaaga gaaagcnnng 300
 aaccacaag agggcaaaga agaagagaga ggagaagaag ggcgagcaca ggaagaggag 360
 aacggccgag acgcaca 377

<210> 56745
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-G3

<400> 56745

tccggaattc ccgggtcgac cgcacgcgtc cgcccacgcg tccgcccacg cgtccg 56

<210> 56746
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-022-Q1-K1-G4

<400> 56746

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cgtcggatgt tgagtaccgc tgcttcgtcg gcgggctcgc ctgggccacg gacgaccact 120
ccctccacaa cgccttcagc acctacggcg aggtcctcga gtccaagatc atcctcgatc 180
gggagacgca gaggtcccgc ggcttcggct tcgtcacctt ctccacggag gaggcgatgc 240
ggaacgccat cgagggcatg aacggcaagg agctggacgg ccgcaacatc accgtcaacg 300
aggcccagtc ccgcggcggc cgtggaggcg gcggcggcgg cgggtacggg ggtggccgtg 360
gaagctgcgg ctacggcggt ggcgggcgcc gtgatggcgg cggcggttac ggcggtggcg 420
gcggctacgg tgggtggcggc ngcggtacg gtggtggtgg c 461

<210> 56747
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-G6

<400> 56747

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gcagcacgcc gtgatgctga cctgccgaga atccaggctt gcgtcgacca tcgggctgcg 120
gctgtggcag gccggagtcg tcgtgtatct agacatccgg aggtggatct gatgagctga 180

aactgaagct gcacctgagc cgctcagctg ccgttgatag atgccctctg tttgctctgt 240
 tttacgatcc ataggtgatg cattttattgg ctgaggggtc atttacaggt ctgagacaga 300
 gatgaggatg tgtaatacta tcaatgtgac gacgggagtt gtgaatatgc tcatataagc 360
 agatcacatt cgtgcgatgc caaatgacat ggtggac 397

<210> 56748
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-022-Q1-K1-H11
 <400> 56748

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 aggaaaaaaaa aaaagaaaaa gaaaaggaaa acagggagaa agaaaaacag agaacagggc 120
 cgaagaaaac aaaaacaaaa aaaaaaggaa aaagaaaaaa aaaaaaaggg gcgccccccc 180
 aaacgaaccc aggccagcgc ccccgggccc ccaagcaaaa cgagcgggaa agggaacccc 240
 aaacacaaaac cacggggccc gcggnaaaca aacagccacc gggaaaaccc cggccgaacc 300
 ca 302

<210> 56749
 <211> 179
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-022-Q1-K1-H12
 <400> 56749

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggaaa aaaaaaaaaa aaaaaaaga 120
 aaaaagaaaa aaaaaaaaaa aaaaaagggg gggaacaaaa aaagggaaaa agagaaaag 179

<210> 56750
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-H3

<400> 56750

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gggttgccat tgattaacgg gggttgagctt tgtagtaaca tctgaagagt tgagagtttc 120
cttggtatggt tgaaccacca gaatacatac aagtttgagt agacaatgct tctatccttg 180
taccctcgtg gagtctttgt gaattgcctc gtaggaattt tggtttttac atgatcttga 240
ggcataaggt tgtaaaatta gtcgaaaatc tgtatctgtt gtaaagggca tggacttttg 300
accactgaaa tggctgtcaa gctttcgtat actgcaatgt atgctgttca aaagtcaact 360
attcaaatat tcgattattc cttg 384

<210> 56751

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-H4

<400> 56751

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tctgccaac tccggtgagc gagagtgtgg tgacgacaga atcatggcgc tgcccgtggg 120
gccaatcgtc ggtgcgcgag ctcccccttcg gggtagcat gtcaccgtcg agcgacctct 180
tggcggtgcc ctagtgtcct gtgcgtggcg ttatgtaccg gtggctgcgt tgtttctacc 240
cagtcgtctg caaacaagat tagcaagaat ggacgaaatg gtttgagttg gttctctgag 300
caggttgaca agtgaggacc tctatgaagc tgatgctaac atttacagag caaaaggatc 360
tatattagag cagtataaat ggtggatgtg aggcttacat tggttgtgag cttgaaaggg 420
aattttgttg ttggctggtg aggttctttt gactcctgat g 461

<210> 56752

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-022-Q1-K1-H8

<400> 56752

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 atctactaat acctatacgt caaatgtata ttcaacaatg ggccatgacc ctcatcccaa 120
 tcatcatccc acctgcttca ctctetacta atcctaatac catataaaca acctattctc 180
 ataaccatt tcacacttac tcatcatctc ttctcatctt atcattttatc ctctcccata 240
 ctaccataaa catcattatc cagtatgaca ttacatgata ttaactatct gtataacatt 300
 ttatccattt act 313

<210> 56753
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-A1

<400> 56753
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 atactatctc tccatatact gggtaggggt aaacttaaaa gggcgggtgt aaatataact 120
 atttaacgat attaccatct attattacga taaatactat tgaaccaact gctgttgtga 180
 cctatgagat gtccatttaa tcctataatg caactgtcaa catgatgttt a 231

<210> 56754
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-A2

<400> 56754
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 cagaaatcct aacatcctgc tggaaggaag acccaaggga cagaccaaac ttgacacaga 120
 taatacagat gtcctacac tacctatcca ccttttcgcc acaagagacc ttggcggggc 180
 cccgccgcac gttcagctcg gagaacacaa tcttgcccc agagtctccc gggacaagct 240
 cgctgatggc ttgcgggggc gacctcggcg acacgcccc gggcaagaag gaagacaagc 300
 cgaggggctt cttctttctgt ttcagcgagt gctattagca cgagcccccc caaaggggga 360
 aactccgag aagcttgcaa atactgaacg aacaccgtct cccccccagc cccgatgccc 420

tgcgactcaa gccatg

436

<210> 56755

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-023-Q1-K1-A4

<400> 56755

cggaattccc gggtcgaccg acgcgtgcgc ggacgcgtgg ggagaaaatg ggaatgcatg 60

agatgaggggt tctggttgct gaaaggctga ggatgagcat atacatcaag ggagaagact 120

tggaagtgga gcanaattgc attggcattt tgctggaagg gttcttgaag atcgagaacc 180

tgactctcat cacgccccca gcgttgcttc tgccatggaa tgctgacttg agcttattcg 240

gtctcgagtc ctcagactac tgccatactg cacgcaggta tcagggtggaa gccagagcgc 300

ggatcatctt cttcgacgag gcagaggccg cccatcttca tgttcagaca agtgcgtcgc 360

tgccccaagg tgagccagca cggagcatga gcaaggagca cagcg 405

<210> 56756

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-B3

<400> 56756

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gtgccactca tcaaagaagt cggcgggttaa acctcttttt cttttggggg ttgggggaag 120

attcattttg agatgaaaat aattcctttg cagaagatac atacaaattt ggactgggaa 180

ttttagcagt ctaaccagat acatctggat agatattgta aaagagatac agctggatca 240

atgagcattc tttctttcac atttaaac 269

<210> 56757

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-B6

<400> 56757

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ttcagttcaa tcaagaacaa caaccctgc acgaggagag gataggaggc tcaccggtcg 120
cgaccaaatt ctcccagaga cggtcggaaa tgaggagcca agcgctgctc ttcctcacga 180
tcgcccttct caccgtgctc gcgcgatcca tcaacaggca ccaccaccac caccactccc 240
acgttcaaag catagggcag tgagcatcat catgatgagg aggaggagga ggtgagctgg 300
cgagccgggc gccggcgccg gcgcgcgctt ggccgtgctg cgacagctgc ggcggtgca 360
ccaggctc 367

<210> 56758
<211> 310
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-B8

<400> 56758

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agtgtgcctg ttgtcacctg tgcaaagggc ggcgtaaatt ttgcgttttg cttcgtcttc 120
tggggaataa acagagttga cagtactcgg ctcaaaaagt tcagatcgac tcagttgttg 180
ttgttttttt ttttttgcc tgaattttca tctcgctcag ctcgagtgag caggttctgt 240
tgttagggtg cctgatcttg gttatcacgc gacgtaatga aacaatggaa cgcagtgcnc 300
nnnnnaaaaa 310

<210> 56759
<211> 294
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-C11

<400> 56759

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ggaaaggttc agaggttagta gaatatatat atgaccggcc tcaaaaaaag taacttgta 120
 gtttcttttt cttttggggg ttgggggaag attcattttg agatgaaaat aatttctttg 180
 cagaagttac ataccaaatt tgactgggaa ttttagcagt ctaaccagat acatttggat 240
 agatattgta aaaaaaatac aattggatca attaacattt tttcttttag attt 294

<210> 56760
 <211> 321
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-C6

<400> 56760

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 gctacaaaaa acattttttct ttgatcatta caaaaacata tctatccaaa tttttatata 180
 ttaatttacc gagccaccat catttttgct ctagacactc taatatgcta tcttgaaacg 240
 tctgtctccc tattgtctta tcaattcaat ccaatcaaat accatttttt cttttcaatt 300
 ttatcacatg aacttactac a 321

<210> 56761
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-C8

<400> 56761

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 gcaagggaaa ggatgacaga caggacaatc gagagcggcc catcatgaag ggcggcgggg 120
 ggtacacaac tgtatctgtc gaccgtgtgc ggaacagggtt attctgacat gactataaaa 180
 gcgttgccga gggacgaacc tacatggact gggcatgcaa gcaactgtaac cagacacatt 240
 cgcatagatg ataggaacga gctcagaact ggtcaatgag gatcaagcct atgcaatcca 300
 ggggcatgct gctccctagg gcgaacaacc taactaatcc tactttacct actgttacct 360

gc

362

<210> 56762
<211> 70
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-D12

<400> 56762

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acatatcca 70

<210> 56763
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-D6

<400> 56763

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aatgttgga gttttgacat ctccgcggcg ctgcgggttg tgcaaggcaa gcaggcgggc 120
agtccattct tcgcttgat gccatggcgc ctggtgtaac caactggtag cgtgtgagga 180
ggcttcgttg tattgactag tgcataattc tgggcaaaac agatgcgttt ggttgccc 238

<210> 56764
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-023-Q1-K1-D8

<400> 56764

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gaaggggggg agggaaaaaa acggtcggcc gttttaagg atccaagctt aagtacgcat 120
ccattcaacc tcataattct tttatagcgc cacctaaatt aaatccaccg gccgtttaat 180
aacaacgctc 190

<210> 56765
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-E10

 <400> 56765

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ccaagcttct accaaaagga accccaacca ggggtggaac ttaagaaggt gcctccaact  120
cgtgccaaagt caccaaaatt gacccggaga aagagctgca gtgaaacccc tcatacacca  180
gagggaggaa atggcagtgc agtatgctgc cggttgcatc gccacagcat tgggaacgcc  240
agagatgtta gcagcaaggc acaatgttct ccaaagagcg cctcaaaggc tggatcagct  300
actagatcca gggtcaccaa atccagngaa gacctgaagg ctttcgtgaa gaaagtggga  360
ctgccaagcg ccgcgaactt cgctgtacaa acctaactca tcangcattc actcccatat  420
gccatttttc attttatnta tacctcaca                                     449
  
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<210> 56766
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-E4

 <400> 56766

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cctgcaagca tctaggtttg gtgtctgttt ttttggttc ttttggttg gatctgaatc  180
cctgtaagag ctctctctct ctttctcttt ttgcatgaaa tgtgtgggtt ctgtctgaca  240
aaatctgctt gtgttggtg aatctgaacg tgaacagatc atactggaga aaaaaaaaag  300
cagcaaaact agaaatatta ttaatttgc aagctcaatc aaataatatt tctagttntg  360
cttgc                                             365
  
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<210> 56767

<211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-023-Q1-K1-F1

 <400> 56767

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 tatcagacat gaacaagctc aggccccaga tactaaaaag cagaggcaag cagaaacagc 120
 accagccaag tgacagtcac agtggcgaac gcaagaaccc cacaatcagc agcagcgata 180
 gcataaaciaa ccgcaagaga aacgggtgcag gcacctaaca aatcttgccc cagctggcca 240
 acagatcaag gcacagttaa ctgagaactg actactacag ctaagacctt ttctttttca 300
 ctgtactgtg gcctactgat ttctcacgta aatattagcc ctggatttgc aaaacgcaac 360
 gcaatctgta aactgatact gcttgagtcg aatcgatcga aatgattc 408

<210> 56768
 <211> 51
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-F10

 <400> 56768

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<210> 56769
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-023-Q1-K1-F11

 <400> 56769

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 accagcaaag tgacagtcac agtggcgaac gcaggaaccc cacaatcagc agcagcgata 180
 gcataaaciaa ccgcaagaga aagggtgcag gcaccgaata aatctttgcc cagctggcaa 240
 acagatcaag gcacagttaa ctgagaactg actagtagag ctaaaacctt ttctttttca 300

ctttactttg gcctactgat ttgtaacgta gatgttagcc ctggatttgc aaaacggaac 360
 ggaaatctgt aactgatact tgttgagtcg aatcgatcga agtgattctg c 411

<210> 56770
 <211> 265
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-F2

<400> 56770

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 tgagcttcat tcagacatcc acaaactcca gcgcgagata cttaataaga ggtgcatcta 120
 taaaacctac cacctattcg aaacccaagc tttcgaacga tagaacatgc actctcagac 180
 acagaagtcc attataccac cccaatagaa cagccgcacg caccacttaa atcatatcca 240
 agacgtccaa ctcatcatcg ccagc 265

<210> 56771
 <211> 358
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-F3

<400> 56771

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 cacatcaaca aactcaaggc ccagatacta taaaaacagg tgcaaggaga aacaccacca 120
 nctaattnac aatcacactt tctaacgcaa gaaccccaca atcagacaca gcaatagcat 180
 ataccacctc attataaaag gttcacgcac caaataaatc ttatcccaga tgtccaacat 240
 atcaacgcac agctcactga taacttacta atacatctca aaccttttct ttttcacttt 300
 acttttctct actaatttat cacttagata ttagccctgg atttgcaaaa cacaactc 358

<210> 56772
 <211> 143
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-F4

<400> 56772

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aatgtcntag tgcagtgaat tgtaaggaac aaccattgaa tcattgtggc tgcgctggat 120
taccatggtg agcgtaatgg tgt 143

<210> 56773
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-F8

<400> 56773

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agttgttgat acaattggga cagtattgcg atctgaagat tcagtttctg aaaggaggag 120
aaaattagaa ttccttgaga tgcaggaaga acttatcaag gaggaagaga aaaagaaaga 180
gaaagaagaa aaggcaaaac aaaagaaaga agaggcaaag atgaaggaac cagaaactgc 240
tgaagaagat ttagctttga aggaaatgac tgatgctact gctaggggaag aactgagaaa 300
agcaaaagaa catgacaaag agaagctctg taatatcagc cgtgccttgg ctgtgctcgc 360
a 361

<210> 56774
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-023-Q1-K1-G1

<400> 56774

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ctgggatcga agctcangat gcacgggaag gccctgcccg cgagacccgc cgccgtgtca 120
ccgccgccgc ccgtgaaggc gcaggcatca cctgcaaaaa cgcggcgctg ctcgttctcg 180

ccgtcgaggt tggcgacaag gctcatgtcg cctatcaaag cgaggctgtc gctgggcagg 240
 agcagggaca gcggcgctcg tgtcggcggt ggcccgatga gcgggctgaa gcaacggcca 300
 ggtgttagct tgacgggtcg gacgggtgtcg agcaagatat catcgaggtg atgatcttcg 360
 tttgtcttcg gcgtcatgtg 380

<210> 56775
 <211> 326
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-H1
 <400> 56775

gaaaacccgg ggcgaccgac gcgtacgcc acgcgtccgc aaagtgcaag ctaagttctt 60
 atgctccaga ctttgtacct gtggcacagc gtacaaaaga tgagtctggc gctgancaga 120
 gagaatccag cagcgtactt gtagacagga catctgggat acaaaatgcg gctgagaagc 180
 cccacgatac caaggtgatc aagcctcagg atccgtgcgt ctccgaagag caggctagcg 240
 aggccgagaa agagaatgga cctcagggat gtccttgag cggaatcag ggccaagagg 300
 aggcagcgaa aactgcaact aaccac 326

<210> 56776
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-023-Q1-K1-H11
 <400> 56776

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 cattatggaa agggaaacaa gctgcaaaaa ctgagatata aaagatgaaa ctttcatagc 180
 ttacgtgccc agaaggcatt tggttaagact caaaaataat ttattgagtg catgaccaa 240
 ctaaagataa agcctttcag ttggaattga actgg 275

<210> 56777

<211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-A8

 <400> 56777

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 atccagttgt actagggcatg atgatacttt gactggggac gcatcgtccg tggacatggc 120
 caccaaggag aacatggagt ctctgatata gatcggccag gagctgctca agaagccagt 180
 ggcgagagtg aacatcgaca catggctgta cgagtcctgc tactgtgagg gcacaaatgc 240
 acagtcgcta gctgacttcg ccaagcaact ctctgacgag cgcaagctac gcaagagcaa 300
 tctcaactcc aactaataaa tacctctctc agtcacagca tgtgctcttt ccgcaaattc 360
 accggttctt atttttaatt taattttaat tctttgtgtg tg 402

<210> 56778
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-B2

 <400> 56778

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 tctaactagt caaaggggtga agttgaagat gatgaggggg attgtaatga ggacgaggat 120
 gagtaaatag tacgatgggg aacagcagct atgcaattga agtgtttgct gctttactta 180
 tttatctaata atgctgaacc ttttgatgtt atatgctgta aggaaaatct gtacatgatg 240
 gtaccttatg gtattgcatg ctggagttcc cctttaaccc gaagagcctg atacttttac 300
 cagcctcgtc agcatgtcta aacagttgct cacttgtttt atcgactaat 350

<210> 56779
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-B5

 <400> 56779

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 aaatggagct gatgcatttt ggaaatgtta acctagccga ataagttgac aggtgaagag 120
 caggggaatt gcagtgaagt ctggcgggtg cggcaagggg acgagagaat gtgtcaacac 180
 gagagactcg tttgcttgca gaggaggtat catgacaatg gatgtcgcca agtcctccgt 240
 gtcgaccata tatatatgaa gaataataag aaaacacaaa tacccaagta tttagaagcg 300
 ttgaatccag atgtggcatg aggtcggagc caacgtgtac ttgcatacgt tacgtttata 360
 tacatgtact gctctgctgt aaaaaaaaaat atataatatt ataaat 406

<210> 56780

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B6

<400> 56780

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 acgtgcgact gtcgtacaat actatagcgc gctcagaatg ctgggaggtg caagaattca 120
 tccccagtcc agtcacgaaa tggtttgctt cttgactata tcgtgtaatc ttattcagtt 180
 attcttggtt gtttgggtca acttcgagtc attcccctgt ttatatatct tttatatctt 240
 actattccta tatattttat cct 263

<210> 56781

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B7

<400> 56781

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 gtacatgaaa gatggggagt ttgcgcaact gacaaggagg attcaatgag gctggcgggtg 120
 ccgtcccgc cccccacttt ggtagcacta cgggtgaacc acgacagtgt ggcacgttga 180
 acttcggttg ccagaacgat gtgaaacctg tctaaattca tgtagctcag ttgtaggtgt 240
 ttactgaagc tgattgctgt agttgcctga tcttctggga gtaccctttg ggcagtaaaa 300

aaatgcactt gtcaccggtg accaaccggt c

331

<210> 56782

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B8

<400> 56782

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gtctctgtag ctggggggttt cggcgatgtc ggggggcggc atgggcagca aggggcgtgg 120

gcaagggcgg cgccaagcgc caccgcaagg tgctgcgcga caacatccag ggcacacga 180

agccggcgat ccgtaggctg gccaggaggg gcggcgtaa gcgcatttct gggctcatct 240

acgaggagac ccgcggcgtg ctcaagatct tcctcgagaa cgtcatccgc gacgccgtca 300

cctacaccga gcacgcccgc cgcaagaccg tcaccgcat ggatgtcttc tacgc 355

<210> 56783

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-B9

<400> 56783

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atccattacc aaactggcag actgtgtgct attttcaatg agtagatccg gtccccgatt 120

aaccactaa cataatcatc accatacacc ataaatactt atacaccgat actaatctca 180

ccacttaatg aattcatcta catatttctc atgctaccac ttatgcacta actacacact 240

tatttttttt tccggtctca catcaatctt ctctactcc ctgcatttct ttattgtatc 300

tcaaagatcc ctaacttgc 319

<210> 56784

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-C2

<400> 56784

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tgctgcggtc agggccaggcc cgcaacaggg agaacgctgg cgccatcata ctgcgctgt 120

gcaagagaga cgccgagaac ctgcctgcg tagggaggct gggcgctcag atcccgctcg 180

ccgagctggc gaagaccggc acggaccgag ccaagcgcaa ggcaacctcg ctctgggagc 240

acctcagcaa gctgcagggtg ctctagtagt cccaccacc actgtccatc cacagccaca 300

ccactctgtg cgcgggggcc tgcgttttcg acttttccac gc 342

<210> 56785

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-C8

<400> 56785

ggaattcccg gagggaccca cgcatccgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaagaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaggggcyg gcacacaaaa 120

agacccaaac caaacaacc caaacacaca acaacaaac accaaccaca aagccaccaa 180

aaacaaaaac accagccaac aacaaacaac aacacgcaca gaaaaacccc agcccaaccc 240

caacaaaacc acccaccacc acaaccccc 269

<210> 56786

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-D4

<400> 56786

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ggctggatga tggcctgcgc tcttgtgtc ctctatatg tcagatgtac ttcctccgag 120

gagcaagggt tcgtacctt ttcgtactcg ctacagctac agctagtacg tactatacta 180

ataaaaagctg cagttttcttc aaa 203

<210> 56787

<211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-D5

 <400> 56787

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 cgtgagagac ggggaggtta agatgagccg gaggctgtgg atcccgggtga agttgctcca 120
 tgaggcagcg gggtcacgtgg tgactgtgga gctcaagacc ggcgaagtgt accggggggtc 180
 attggctcag tgcgaggata actggaattg ccagctcgag aacataacct tcaactgcca 240
 ggatgggaag gtttcgcagc tggagcacgt cttcatcaga ggaagcagag tgagatttat 300
 gattatacct gatatgctca agaacgctcc catgttcaag cgcttgtaag ctaggattat 360
 gggcaa 366

<210> 56788
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-D7

 <400> 56788

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 ggggtccac aggagagcaa aaatggcgac cctctccatg gtctccgtcc ccatcgcacc 180
 ctctccttg tccctttcca cccggggccg cagctctcc gcaccttcc ccgctaagaa 240
 gggaggaatc gggtcacggtg gcttgccgat cgagtgcac cgtattggtg gtgttgagat 300
 tccaaaccac aagaggggtg agtactcgct gcagtacata catggcattg gacgctcacg 360
 ctcacgccag atcctactgg acctcaattt cgataacatg atcaccaagg ac 412

<210> 56789
 <211> 83
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-024-Q1-K1-F1

<400> 56789

cgcgtagcat caacactttg ttgttgatca cttatgttcc aaattctgag tttgacgctg 60
gagcatgcct catttgatgc tgg 83

<210> 56790

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-F3

<400> 56790

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tctgcacaac ctactgcacg acttgccact aggagtgcag gcaaccgaag actggagtgg 120
cgacacatgg gaggacaaca ccggtggtgt tgcaacaact gaaatcgta cgccggaagg 180
tactgcaaca tggatattcc ggcacaaaat cgccctaggt gccgcaagg cgctggcatt 240
cctccaccat ggctgtatcc cgcagattgt ccaccgggac gtgaaggcaa gcagcatcta 300
cttcgactgc gcaatggagc ctaagcttgc cgatttcggg ctgtcgatgg tggcaggaac 360
cagggccgat c 371

<210> 56791

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-G1

<400> 56791

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aagtgtaca agatgtagca aataaaaaa ttgatgatca ggtgttgagg tgtgcagaca 120
tggttgaaga aaatgggtcgt catttcaaga actacaagta caacattatt cccctcaatt 180
t 181

<210> 56792

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-G3

<400> 56792

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accgtcagag ccatggacgt cgtctacgcg ctcaagcgcc agggccgcac cctttacggc 120
ttcggcggtt agggcgctag gctaggccat gtcgacccg cccccactc tccgctctgg 180
cgtcgtcact ggttccttga cccctgtgcg ggteggtegg tgggtgctagg gtcagcagtt 240
gtctggtgtc tgtagcctct ctggctatcc gttctttggt gtgaaatgga attccaaatc 300
gtgtgaatgg gaatggatct ctgttgatt gttcaaa 337

<210> 56793

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-G8

<400> 56793

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ttcttatatt tatgtttatt aagtggggga atgggtagct tctaagaagg gagggaacaa 120
catccatttg atgtgaatca ttcatggcac agtatgcaat attggcatat gtggtactat 180
acatacacac ttactgtact cacaacatat ataatagaat ggttgattaa ttattaatt 240
ataaattata aatgtcgtcc tttctatatg atccaaactt acttactctt tcattctatt 300
tttttacttt ttattatttg ttcccttatt tctattcact tccctttttt ttattatttt 360
tttatcttta attatccttt tcttttttta ttatttattt tttttatttt aatttttctt 420
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<210> 56794

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-H3

<400> 56794

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gcacttgggc tcgtctgctc tagaggtcgg gtctgggtctg gtctgggtccg ctaagctcat 120
tctctcaatg aggttttcgc cgatttgcag tgtgtataat tacatatcc tgtaaagcaa 180
caacgagaag aactactctt ctatgtcctc agatataatg ggtccagagt ttaagatttg 240
taccaaaaaa aaaaaataa aa 262

<210> 56795

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-H6

<400> 56795

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ccacgcgtcc gggtaacgaa gccctctatg acgtgtgctt caggactctt gaggtgacca 120
cccctagctt tggatgatctg aaccatttga tctctgcaac catgagtga gtcacctgct 180
gcctaagggt ccttggtcag ctgaactccg acctcaggaa gctggcagtg aacctgatcc 240
ccttcccccg tctccacttc ttcattggcg gcttcgcgcc gctgacgtcc cgtgggtccc 300
agcagtaccg ggccctcaca gtcccgagc tcacgcagca gatgtgggat gccagaaca 360
tgatgtgtgc cgctgac 377

<210> 56796

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-024-Q1-K1-H8

<400> 56796

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accaaagagg aggggccttg tataggacat gcatacggtc acaaaccacc aaggtgccgt 120
aaacatgcac tgccattcaa atagtgtgag aagttgcgtt tctaaaaaaaa aaaaaaaaaa 180
aaaaagataa taaaacaaat ataattaaaa ataataaaaa aaaaaaata taaaaaaagg 240
ggcggccggt ttaaaggatc caagtttact taccgtgct tgctacttct tacctttttt 300
atagggtcac ctaatttaaa tt 322

<210> 56797
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-A1

<400> 56797

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ataaaaaataa cctaaaatta cacgtaattg cttaaaatcc actttgggtca agacataaac 120
aaaaaaacttt taatacgggg tccctcttac tttctttttt atatcatttt tttccctttc 180
tttagatccc aatctttttt cttectattt cctaactatt aattcctttt ttacttcaca 240
tttacttaat tt 252

<210> 56798
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-A12

<400> 56798

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tgggtgttgg catggggcta tcgttctatg gttccagatg ttcactgcac tgggtgttagc 120
gtttagctac ttcagtgcac caatggtttt gtgtgcaagt ccttaatatg taatacattt 180
ttgaggtttt catcatgcag aattaaataa atattataaa gtaactatga aaaaaaagaa 240
tttattgcat ttcatttata aagaaagaag ttaaaaaaaaa gtgtggcccc tttagaggat 300
ccaggcttac taacgcgtgc ttgcaacttt ata 333

<210> 56799
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-A3

<400> 56799

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atgcagatct tgaccctctt attgcagggc ttcgtccaat gcgacttcga gagaaactgg 120
gcagggagct tcgtggccgg cttggtttga gattgttcaa tatagatatg attagagaac 180
ttggaaccaa agatcgggtac tacataattg atatcaacta cttcccaggt tacggcaaaa 240
tgccaggata tgagcgcgatg ttcacagact tcttactaag tctcgcacaa agcaagtaca 300
aaaggtactt aagcggggaca tgaggtgcaa ggaagtttgt gaagaccatg ctactgacta 360
gatggcatat aacggtggca ggtatgcttt cccaccgcgc caatgtacat ttgctggaga 420
cataagca 428

<210> 56800

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-A6

<400> 56800

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tgaaaaaggc actgttgcta aagcttctga gaaggatggt aaagcacaca aagagaagag 120
gggtgatcaa aatttgagaga taaaggcact tcgcaataaa gctgctgagt ggcaattgaa 180
agtactcgag aacgagggca ttctgaacgc aaaggagaaa gaaagggatc aaagagttgc 240
agagaacaat ctgaagatga acgcgttgaa atctgaagtc gaatcggagc acaagtgccca 300
tgcgagagaaa gaaataaaaa taaaggaaaa gcttgaaaag gttgctgaat tatgctctca 360
agctgattcc gttgctgaag ctggaaataa gaaaatacaa gaaatctgtg ggaagtataa 420
tcaaatttg 429

<210> 56801

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-A7

<400> 56801

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ctggagagac tttatgtaac gaacaggact gtgtcaatgg ggggagtggt acaaaccact 120

ctgtgtatgg gcctctctat cagaaacagc aatgagacta cacgtatgtc acctacagtc 180
 attaaactca tgagcacatc atcgacttac tagaactaaa atatgtggat aaactgtcca 240
 cactatgcat cattgatcac ttattcac 268

<210> 56802
 <211> 282
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-025-Q1-K1-A9
 <400> 56802

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 ctaactcagg tcctagcgtg tctgttctct tgaagtggca ggggagactt atcatctgcc 120
 taatgttttg ataccctttt ccgtactact tggctcgtaa ttaggtatgc catatacgct 180
 tgctattcca tgtacatgta taaatcttac acattctact ggccaatta acatgagtat 240
 gcatattatc tatatttgtg ttcattatac gtattgctga ta 282

<210> 56803
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-025-Q1-K1-B1
 <400> 56803

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 tgaagtgcga cgtggatata atgaaggacc tgtacngcaa cattgtgcgt cagtggacgt 120
 tcgactatgt tcccgggaat cgctgatcgt atgagcaagg agatcactgt ccttgcacca 180
 agcaccatga agatcaaggc cgatgcaccg cctgagagga agtatagtgt ctggatagga 240
 cgggtccatcc tagcctcgct gagcactttc caacagatgt ggatatataa ggaggagtac 300
 gatgagtatg tcccggcaat tgttcacagg aagagcttat aggcttcgca aggtcctcat 360
 cagtgcctag tctcaagtta tgtcccctac atttctcaag atacgcgtgg cagatatgca 420
 tggtagcggt ca 432

<210> 56804
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-B10

<400> 56804

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aaaacctttt taagcaaacc accggagcat cggggctggg tctggctgag ccagggcaga 120
ggactattac aacgaaattg acatggggta tgaggatgag cccccataac cggagattga 180
ggaaggatct gaacaagagc ttgagaacaa ctaatatgcc cctgatgaca tcataagtgg 240
ttaggggttaa cataaggagc aggataagac caagcgtgaa cgcaaatcaa cttgatacat 300
gacgaagtac taacgtgctt tcatcctgag tacacga 337

<210> 56805
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-B2

<400> 56805

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ctgaactgaa ctagcacttg atctccttaa gaccggtaga tataatagag ggggtgtggga 120
ttagtggcac catccttgta ataggcgaat accacggacg cttcgtcctt catgctctca 180
ccatgcaagt tgcaagctca tgattggcag ttaagaaaga taccctactg agatagtgcc 240
aatgggtgct cttgcatgta atgtactact actacaactg tgtacaggac acttgtgtaa 300
atgcacatag gttagcagct tgcttcttga ctaacaccta atgggcattt atgttgtgct 360
aaccgaatga caaaattagc tcgttttagt gtgataatcg ttatctagtg agtggggaat 420
gataccgata tcttcgttct tt 442

<210> 56806
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-B3

<400> 56806

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aaatttttaa caaaaaaaaa atacaacaag aaaccgttta atat 104

<210> 56807

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-B7

<400> 56807

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ctgcagcttg gtttctcgtc gagtcggctc accgcgcgtg gctgactcag ttgcgcacgt 120
ctaagatcga tgactgcgcc gttgtctgcc tgttcctgaa cacagacaaa gcgagcgaat 180
cgtcgagttc tttggccaag aacttggcag atgctgtaga agttagcagt gccgggcgcg 240
ccacaactgt ccaggtgagc gctggtgcat ctacagatgt tgccgccctg gtaccagtac 300
cagatgggaa cgaggtgtct attgctgaaa ccatcacaaa gctggtcacg ctcatggatt 360
tgccaatga tggttgaggc tcctgtgatt gggacctgaa ctaagatata ccacatctgg 420
gggtgctgct tgcagttttt ttttctgaac gcaagtgtg 459

<210> 56808

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-025-Q1-K1-C10

<400> 56808

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tcctgagaa gctacgagct gctgctatga taccggtcat gacaccattg cgctgcagac 120
ctgtacatgg cgacactcac accaccaatt gaaggatata ttgaaaaagt gcgggaagcg 180
gccaagaagc actctgtgaa ggagaaactt cgctgagaat tcaagagagg aaactgtttc 240
cgtaagggtga ataaatattc aacctaattg acaagaacag ctttggcaca aactgcaatt 300

gccatatttg gtgatctagt caggcatccc aatttgctta gcagccatta tctattgaaa 360
 tccttttggc cattttatcc actctacagg aatttttttt gcaatatccc tagactggca 420
 tttcatttt 429

<210> 56809
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-C12

<400> 56809

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 tgtccacttc tctgcctgca acccgttcgc cgggtcccg gcccgttgc tttggcatct 120
 ggccaaccac tagactttgc ttctaaacca gaggtccat ctgtgtgccg ccttgtttta 180
 ctagaaatcc ttcttgattc tacccttttt cacttgctct gcctagtttt tttacttacc 240
 ctgccattgt acaaacaatt tctccagtgc ttgtagcttg tggacttggg atggccaaca 300
 tgtcatgaat aaaaactgag ttgtcttcag atatattttt ttggggtgcc ttccataaat 360
 taaattttt 369

<210> 56810
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-C9

<400> 56810

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 agcaggtcga gcatcttcga cgccaagggg gggatggctc tgaacgacca cttggtcgag 120
 ctcgctcgt ggtacgacaa cgagtggggc tacagcaacc gcgtcgtcga cctgatccgc 180
 cacatgttca agaccagta ggggtttttt cccctgctt ctcatggatg gttgctgctt 240
 gtgtatgccg agaataaatg tggatggcgc gtgcctctgg gtcgccaggt tcatgctgag 300
 tctggacatg ttttgactt ttgtttccct tctgtctacc atctgtgaca gatccgctcg 360
 ctaatatggg acctgagatt agctttatgc tgcttgtggt gaaaaaaaaa aatatttaaa 420

agggc

425

<210> 56811
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D1

<400> 56811

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acatagtttt gatgctaaag ttgcctagga atttggtacg gtgaagtggc agtggacggt 180
aacaatgtta agttttgagc atttaaatta aacctttgct ctgataaaaa aatacgtaag 240
tcatgcatgt taacaaacac attctatcat ataaaaaagg gcggccgatt tacaagatcc 300
aagtttactt acgcttgcat gcgaggtcat accttttctt aagtgttaacc taa 353

<210> 56812
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D12

<400> 56812

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cacgcgtccg ggaagaacgc attttgatgg ctgcggagga acctgctgga cagggcggtg 120
aagatggtcg ccgaactgga cgagccagca gagatgaact acgtgcgcaa gcacgcccag 180
gagcaggcgg aggagctcgg cgtgtcgcta agggaggcgg cgacaagggt gttctcgaac 240
gcatcaggct cctactcgtc caacgtgaac ctggccgtgg agaacgcgtc atggaccgac 300
gagaagcagc ttcaggacat gtacctgagc cgcaagtctt tcgcgttcga cagcgacacc 360
ctcagggcag gcatgaatga gaagcgcaa 389

<210> 56813
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D2

<400> 56813

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gtggtccttc gtgatctaata tcaactactg catgggctat tttccatgga cgtgatagta 120
aaggtatatt ttatttctcg aacgcgcgat agagctgcac atcattatat taagagagga 180
aaggtccaaa gtggaccgaa atacaacacc aagaccaaac ccttaagcct tcaactccagc 240
accctacaa atgggggtggg gggagagcct gactgaccct actagaccct atttagggct 300
tgttcggata ttactaatac acatcgattg gatgtgattg gaaaaaattg agaagaattt 360
tgactcgatt gtgattcaaa cccattcaat ttcactt 397

<210> 56814

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D3

<400> 56814

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gcatttgaaa tcagtgtgtt taattgcgta cttggctctc ctctctctgg ctaccgtggg 120
ttttggaaga actctctaga tgtacaagtt aatactacta gtactttcca cacctattgc 180
agctgaatta gagaactgtt tttgagttct catgcattat tagagttgtc aagggttcac 240
gaatcaagtt atccagctag ctactttctt tctccctgct tctacttcta tagtggaatt 300
aatttctcct tctttctcgg ggggtttttt tgttcaaact tggcttgtag caattatgat 360
tgct 364

<210> 56815

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D4

<400> 56815

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ataagtaaac tccctggtaa aatatatgat taaggggtgg aggttaagac actagagaga 120
 atataggggg gctctaacta ccatggctta atcatatatt ttaccaggga gtttagtgat 180
 tgtaaggaat aagtattata catgtcttta tcaagttttt ttttc 225

<210> 56816
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D5

<400> 56816

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 gattgattat actagcgaga gtccgaagtc ctgagttggc aactcaaaac ttaggggggc 120
 ttcctgacga tgatgaattt gtcttttctt gtttcacctt gaaagcttct ccgcagcaag 180
 ggtagcttgg caggatgctg agccggttcg gaagcgcttt gctacgactt gtttctccga 240
 ctggcatgct gttcaacaaa aacttcaacc aggtcgagta cattgaggca aaaacgacat 300
 gaagatgcac tgtacccatc acaagaggtg gtatgatgaa gatgtagaaa atgacgcaca 360
 gaaacctgga aagatgaata tatgcaaaat gattcgcaaa aaccatggga agatcatt 418

<210> 56817
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D6

<400> 56817

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 taaaatagac attaaatcag cttcagatac aattccaaga gtggcaagtt acacatttta 120
 gaaatcattt caccttggtt acagttcaca ctaacaagtt gtcattgcat ggctaatacg 180
 actgcaaata aactaacat ggtgctatga tacatcgacg tgacagacaa cctaccaga 240
 tatcacatga cccagaacca atccacaatg gaaccaatga caaggccaac aacgaggaac 300
 atcactatga cgatccccgc agtatacgat tggtagatgg gcacagcctt gggcgccaag 360
 atcattatga ctgaggtcaa gtaccggtta gtgaacccca agatgcacgt taacacgggtg 420

accgggatc

429

<210> 56818

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D8

<400> 56818

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catattgtca aaaaatctga atctgagtgg gctcagtaga ggacggagtc ggtgttatgg 120

gcacctgctt tggcgagact gactattatc agccatagca tcagttcaac tcgaagtcaa 180

gaacatcttt cccctcattc ggtttaagtg taatcggtga gggaccaatt gtggcaacag 240

cgagtaatta ttaattgttg agcatccatg accgaactat taaagttttt gtaggctcaa 300

tgacatattt gaatagaaat ttgtctttga tcaaaaaaaaa atgactttg 349

<210> 56819

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-D9

<400> 56819

tccggtctag aattaccggg tcgaccgcac gcttcacgaa gaattaacat aggccaatta 60

tatctttttt aatgatgtat actgagtttg cggtgatcag gacctgtgt caccacctgg 120

gtcaatttta ctaaacatta gcaccactag ccttaaatac atactacaaa gtctgattta 180

ctc 183

<210> 56820

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-E1

<400> 56820

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acttcataac atcttcagga tttcaacaga ccaggttgaa cactaatggt gatctgctg 120
aacatgctca tacactgaca gagataaaat atttcaaaaa agtgatgacc ttcattgagc 180
cacatctagt acccactact ctacaattga ttaccaacta catactctca tgacgaccct 240
ataactaaat acttattaaa gcatatcatg attggcacia t 281

<210> 56821
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-E11
<400> 56821

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tatagttgtc ttgaccacca atcacaagta tgaggatcat tacatatggg agtcgcaaac 120
ttacatttca ttcactgtta ctcatgacac ttcagggcat cagcttttaa tgggcactaa 180
aatcacactg ttccttaaag actatcatct gtagtacctt tacgatcgtc tcctcaagga 240
tcttttcaac aatcactctg agttcatcaa ctaccccatc tcctgtata ctgaaaagac 300
aacatacaat gaaatttct 319

<210> 56822
<211> 351
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-025-Q1-K1-E3
<400> 56822

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tgtgatcatc atggttggtt ggaggacaga naggcgagcg gagcctgtgt aggtgttgcc 120
atgagaagac caaagaggca aatgccaggt ccaaccaacg tgagccctct ttgttttgga 180
cttttggtgg tgatgttgac cagaccattg atgttgaagt ggcaagaatg tcagtgtcaa 240
cagtaatcgg ataaatagat ggtatttccc tgaccctttg tttgtagaac ttgaatgaac 300
ctgggggacag aaacacattt gagggttctt gtataaatca aggtcaagat c 351

<210> 56823
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-E4

 <400> 56823

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 accgtatatc tcacgcaaac gcaaggccgg caagtgtctc attaacaacg gcgcgaagcg 120
 tcacctgaag gtccttccca acaacatcca gaggatcacg aaccccacca tccagaggct 180
 cactaagacg gctatcctga agtcatctg caggcttata tactagtaca ccctctgcct 240
 gctctacatc tttatccaca atgtgatcca caactctgtg acctacactg atcacgcc 298

<210> 56824
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-E8

 <400> 56824

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 ggcttttagcc tactgaagtg aagtcccgag aaaggctcatt ttggatccgg cgtcggagtg 120
 acacggatct actaccccaa gggcttttaa tgggtcatgg aggatgtccc cacaagcgca 180
 gcttcattcc agcagtcata ctgtttcatg actggtgagg cagatccagc aagctctact 240
 acatcaaata acgattctgc ttcctttgac catccatttg cttgatgtat gacacgcttt 300
 tcaactgggaa aataacactt aaagacacat ttctgtgttt tcaggaagaa aagatatata 360
 tttgttcaag tcattcacca tcattcc 387

<210> 56825
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-E9

 <400> 56825

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aactgaagaa agacacaaga ggggatagcg aacattccta ctgcctatgg tatacctaca 120
tatatatattc tgaacaagtc ccaccggcga gcacacacac tgccaccggt tcacagcagg 180
cgaacctatc aatatattcc gattccatac tactgatacc gaactaggct tacactacct 240
caagaaaaaa tctagctcca ctcccttttc ggatgcaatc atagctgacg ttgatatgta 300
caagtttgat ccatgcaaa 319

<210> 56826
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-F10

<400> 56826

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tttcggatgc tggatcggtc tgggctcgag agtcagagtc actttccatc gtgggggatg 120
agcgagcccg ttgacatgtg cctccgcacg gctctgtatg agtcccacgc catcatcttc 180
tgcgtcaagg accaccttct gcgcattggc cgcttggaca gcgtcttctt tagtagagcg 240
tcattcttgaa ctccaacctg ctccagaccct ctcaatgctt tacgt 285

<210> 56827
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-F2

<400> 56827

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tatgagggtta catctgtccc caaaagcatt tgtggtcata gaagctggcc ttggtttgtc 120
agacctacaa tcttacttac atacaattcc ttcttttaaa tatcttatga attgctgcta 180
cttaaaaaaa tcatactttt ttaacaactc attaatttaa tcaacaaaac tctctacaac 240
ttaaaatattc tatatcatt 259

<210> 56828
<211> 200

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-F3

 <400> 56828

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 actttgtaaa ttgtttgtaca gaaaacgtac atatgatgat gccgtgttac cctgatattc 180
 atgacaccgt tgttttaccac 200

<210> 56829
 <211> 492
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-F4

 <400> 56829

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 gagaccaggc cgaaggaaaa caatcctgaa gccaaaggcat gggtcagcag gaggaatttg 120
 aggagcatgc tgagaaggca aagaccttgc ctgagagcac gagcaatgag aacaagctga 180
 tcctctacgg gctctacaag caagccacgg ttggagatgt gaataccgat cgtccgggca 240
 tattctacca aaaggacagg gccaaagtggg atgcctggaa ggctgttgaa ggcaaatcga 300
 aggatgaggc gatgaatgac tacatcacca aggtgaagca gctccaggag gaggctgccg 360
 cctcttaaaa gtctcttaat agtgttgcca aacagctatt tgtcagatga gctttgtgcc 420
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 tatgtaactt tt 492

<210> 56830
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-025-Q1-K1-F6

 <400> 56830

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gacgtggtcg ataggctcat cgacgatgcg gaggctcagt acaggaactt ccagcacccc 180
gatccctaca ttgttccatg ggcaccaggc ggcactaaat tcacaagaaa cccccctcca 240
cctcaaggga tgcgagatcat ctacaattat ggcaaggagg accagtaaac aagagtcctg 300
caagcggggg gcagaacttc cacagttcca aatcacttcc tgtttaatcg agttgttgta 360
cgagaaataa gaatggaaat tactggactc catccatgct tctcatttgc ttgttctgat 420
aatcatgtgc tcttcatct 439

<210> 56831
<211> 316
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-G12
<400> 56831

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gcttcttggg caggggtctgg atcgtcccga agtggtccgtt gtcgcccgtg tgcgtgtgtg 120
atggggtttct gtcgctttgt agcagtagta gcagccttgc ctggtgggct ggtagtggtg 180
cttccagtgc caggtgccgg ctgactgtag tgtgactctg aatgctgcat ctgttctggg 240
gttgaaaaaa taaataaaat ccaacaaaac gagctccctt cgaagcgcaa aaaaaaact 300
gaaaaaaact ttaaat 316

<210> 56832
<211> 271
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-025-Q1-K1-G7
<400> 56832

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atttaaaaaa aaaaaaaaaa aaaaaaagaa aaagttaaaa taaaaaaagg gggccgctta 120
tcaaacatcc ctttttactt aatcctcctt tctatcgat atcatattct atactcatat 180
cccatccaat ttatctcacc atttttttta caacccttc tcttttaaac ccttctcttt 240

acccaactta ttctcctttc atcaaattcc t

271

<210> 56833
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-G8

<400> 56833

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tctactgcgc cgccaagccg gggctgctgc tgtccacggc gagcacgctg gacacgctag 180
ggctcgacat ccagcagtcg gtcgtcagct gcttcaacga cttcggcatg cagcctcct 240
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acgctggcta tggcggaggc tgcttgtaga ggggcatgtc atcatggcat gggaggaaga 360
agaagaagag gcagcaataa attaatttta agcagctgtg ggagcagcag tagtagtatt 420
agttcaggtc cagtagcgga aaaggcaggc agggcaaaga attgggaggc ctttttgcaa 480
tccatc 486

<210> 56834
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H12

<400> 56834

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caagccctag gcgttctgtg tcacctgcaa aggaaaagga gcgcagccgc acacctgatg 180
gcagtaggag cccagccca agggacaagg tgagcccacc accaaaggat aatgggtgcc 240
acaatggctc ggaccgtgaa gacagccctg ggggcaagga gatgagcaag aggagtcgga 300
gcccgtctga tggctaccgt agccctgtgg gcaatgggcy cagcccagac cgtagcccaa 360
gccccaaagg caacaatggg gatgacccaa gcccc 395

<210> 56835
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H3

<400> 56835

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taagctttct ttgcttctgg aacaacatcc ggtaatgtgt aactttacgt gctagcaact 120
acttgctgtt tgatctcaga cactttaatg atccacttcc tgatatactc tacattctat 180
aacctttcgg tctctccctt aacattatgc tagccac 217

<210> 56836
<211> 485
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-025-Q1-K1-H4

<400> 56836

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ctgtttatcg gaattgggtcc tctgactggg aggaagatgc tccagataat gtgctccatg 120
cctacaatgt gggtgaggta ctggatgcct atgatgaagt ccatggcatc tccataattc 180
ccttagtcaa ggttactgga tttcgaacag tatttcagcg ccatcaggat ccaaagtcta 240
ccatgaagat tcctaaagaa gagatgtttc ggttttcaca cctagtcctt ttttacagga 300
tgtcaggcga agaagctgca aatgtcccca aagatagtta tgagcttgat ccagctgcta 360
tttctaaaga actgcttcag gggatcacgg aagcagtgga gccaaatgga acctaaggca 420
gttgatgatg cctgcctttg gtaacctgcc atttttgaag taatcgagca naaagatatt 480
aacac 485

<210> 56837
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H5

<400> 56837

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ttaccttcaa ataactacat cttgaaaggg cttaaactta atgctcgcga acatcatcat 120
ctcctctata tccatttcca tcattaactt cttcatcaac tacatcttct aaaaactttc 180
cttctactcc ttcaaactct ctcttttcaa caagaaccct accatcacct ccctctagat 240
ccatacctc 249

<210> 56838

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-025-Q1-K1-H6

<400> 56838

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tctgcaccgt cgcgaccocct tggctcgacg gcaagcgcgt cgtcttcggc caggtcgctg 120
agggcacatgga cgctcgtaag gccatcgaga aggtgggcac ccgcaacggc tccacctcca 180
aggtgggtcaa ggctcgctgac tgcggacagc tctcctagat ctctctgac tgggtctgttc 240
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gatggtggtg atctgagtg tggctcttagt ttatcatgta tcgctcgag ttttaatttag 360
cgggttaggt gtggatctgt gaaccccatg gcgcctctgc ttgattcgtg tttcacctgt 420
tatgttctga gattcatgat aatgctatga gaactgaaat tcccgtttaa 470

<210> 56839

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-A11

<400> 56839

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aggctcgtgga agtgatcagc aatccatacg cacaaaagaa acggtgcctg cggagaacat 180
tgacagggtcc ctggttaaccg agctgttgac gaccgaccgg gcttgacagg atattttaaca 240
ttatggcacc tgtacatata taccttgagg atttggagaa cccgagtttc cgggtgtatat 300
tagcgaccaa cagagtgtga gtgtaccttc gcttgactta aaaaaaaaaa aatttttttt 360
ttattttttt tattttatttt tatatttata tatttttttt taatt 405

<210> 56840
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-A12

<400> 56840

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gtgcttcaga tgctcatgct aggcagcggg tattggcttg ttactaggcc tggaaagggc 120
ctgcattgtc cacagcttgt tctcactttg accagattcc tacatattgc atcattctat 180
gatacgattg gcgtctatga cagtgtcgac cttgttcaaa tctatgcagt tactagccga 240
atcttctaata aggcggttgt agattttgca ggcgacgaac tactgcatat tgcgacaact 300
gtaaaagtta cacatgatca tctcgatcgc gctctagagg acaccaactc atgagttctt 360
attaacttga ta 372

<210> 56841
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-B9

<400> 56841

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atgaatcaaa acaacagaat catcacctac accgaaatac ttatgcccga tccaatcgca 120
gcacgaatga atgcgtcgac aatttctcat gcgaccacga aggcacgaac tacacacttt 180
tttttgttgc cgggtctaca gcaatcgtct cctactcccc gcattgctgt aggggagctc 240
aaagatcccc agcttgctgt gagcgcgacg acggccgtgg ccgcttcact cacttggcgc 300

cgacgccgag cgtgagctcg agctcctcgg cggcgacctc gtggatgcgc tcgccttccc 360
acggcgtgac gcggcccttg tcgaactcga acttc 395

<210> 56842
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-D2

<400> 56842

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tccagtgaag ggactgctgg gcagtaaaca ctactgccct gggttactct aaagacggac 120
atgttcttag gttcatcgca gtttgtaatc cagtacatga ttaattgaag actagaaatt 180
cctagcgtaa agctctgctg agagcgtttg tcctggctgt tcgcctgatt gttttattga 240
ctgtagctca gagtgtctga ccttatctgg aaaaatatgg tgacggaaaa tgggtcttga 300
gtcaaaaaaa aaaatatt 318

<210> 56843
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-E12

<400> 56843

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aaaaaaaaa aaaaaaaaaa aaaaaaggaa aaattataaa ggaaaaaagg gaactaaagt 120
ccttcctttt taaagcttcc atcct 145

<210> 56844
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-F12

<400> 56844

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 tccctccgctc atcgctcgact cccctgcgt ccgttccttt ggatctgaat aagatgggtgg 180
 tgatctgagt ggtgggtctta gtttatcatg tatcgctcgc agtttaattt agcgggttag 240
 gtgtggatct gtgaacccca tggcgctct gcttgattcg tgtttcacct gttatgttct 300
 gagattcatg ataatgctat gagaactgaa attcccgttt catgcttctt aaaaacaaat 360
 ttaat 365

<210> 56845
 <211> 185
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-G10

<400> 56845

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 ctttcccttt ccttaattat ctagggccca aatcggtgctt ttataacgac cgacggggct 120
 taaactcccg aaccgttgct ggatgcggcc cttgaggcac ctaaacacac cctgatgact 180
 cctgt 185

<210> 56846
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-026-Q1-K1-G12

<400> 56846

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 gcacttaata aggtgcctcc taccgtgcc aaatcgccaa tttttacaag ttcaagggga 120
 aagaacttca gtgatacacc attaacacct gtctgagaaa attccaatgc aacatttact 180
 cctccacatc gtcacattat tcttagtcct aaagactcta acagagttca acaatttctt 240
 ccaaataatc ttttgtcaac caaaacatga tttgtcaaag cttatcttaa agccctttga 300
 atagcattta ttattctatc tctttattct tttttc 336

<210> 56847

<211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-A12

<400> 56847

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 atcaacttta ctccctcatc catcattacc ncatctgggt caatttcaaa aagctcgggt 120
 gctcaaaaca cccccacaca aacaagcanc cctcttaata cacaccacct catctattcc 180
 cccttaacaa gccaaaatcg cacaattttt ttcctagcct aaaccacaac cattataacc 240
 caacatcaaa ctctaataat aaccttgata cttacaacat ctacatcttc aaagttctta 300
 aacttgtaga cacctacatt atcatcttct ccaacgccat ttccattatt aacttcttct 360
 tctaccaca 369

<210> 56848
 <211> 493
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-B11

<400> 56848

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 gcttgcaaat cntatatatt gtatttctca aaagctgggc aaagacaaat tgcttggtca 180
 ctttagccag caaaggactg tattttttat tgacgggtggc ttatacaaac actacaagaa 240
 tttcattgcc tgcttagagg ctacgtcac atacctgctc tgcgaggagg ttgcctcatc 300
 tttgttggtc aagtatacca acgacttctc atgaatttga tctgcacttc ttgcttcctt 360
 ccactcccag tatgctgaag ctgcatattt ctagtatctc ggttttccta ctataccttt 420
 tttttcttcc ccaccatttc ccccttcac caaagcccc cttttgccac ttcattctctc 480
 tattttcttt cct 493

<210> 56849

<211> 467
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-B12

 <400> 56849

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tcatgaaaac natncatgat ctgatccgca cagacttgca acagtacatg gcgagcgtga  180
ccttgcgcgc cggatgccgc tcctttttct tggccgacct ctacatgcc catctcgtca  240
actgcgtcat tctctccacc tcccagcgag tcacccggat gcagtagctc ctgcgctttc  300
atgagccatc aaatactctc ccaaaccgtc aatcaatctt ctatgactaa ctctcatcat  360
cttttcttat caatatcaaa cttccaagtt attattttcc tttttttaa actttattct  420
ctccaaccgc tgttaaacct aaacagcagt aaaaagagtc tcaactg                    467
  
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<210> 56850
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-B7

 <400> 56850

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ccgagaaatt ctggagaagg aaaanaanga ggagagtttt gctaaaacag aaggtaggcc  120
ggagcctgca ttatatggaa gcgaggacat ccgcctctt agcatagatg acttcaaadc  180
tgcccatgag caggtttgtg ctatcgtttc gtccgactcg gcgaacatga acgagtcct  240
tcaatggaac gacctgtacg gtgaaggcgg gtcaaggaag aagaaagcgc tgagctactt  300
catgtgatgg ggtgagagta tagaatccag aaggatcaca accgtggcat aagatcagaa  360
gaaacacagc cgtgccacca catcggtaca gcggccatag taccacaccc actatggccc  420
  
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<210> 56851
 <211> 406
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-B8

<400> 56851

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agaaacttga actgaagggtg ggaaagcaca acaacacttc gaggagggtc ttaagagcaa 180

catcgcaata tatgtggaaa agttgtctct ggagcagttc aatagtttga tcagattcgt 240

caaatctcgt ccagcgggatg agacgggtgc aaattccgag aaagccagca ttgccgaagt 300

tgaaccactg gtaaaagatt tcgcgagccg gtataaagcc gcgatcgagc tgatgcacta 360

tgatgtgatc acatctttca acaactttct ttgcgggatg gagatc 406

<210> 56852

<211> 264

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-027-Q1-K1-C10

<400> 56852

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ggaagaactg aaacatcaag atgggtgtttg cttctgcagt ttactattga gaagagtggg 120

ctaaactaaa ntcattgtatt atgctatgca ttcagaagat gatgctaaac tgaataagca 180

catcaatctg atttttctat gcactttttac tatgttttga ttatagatat gcaatgcaat 240

ctatgcacta aaacgttcaa ctct 264

<210> 56853

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-027-Q1-K1-D1

<400> 56853

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ggaccgccccg tggggaagaa accctgaaac ccatcaagaa tnnngtggtt ggcttcggta 120
cagtgtttac ctattggagg agtagtgagt gcgtgaaann ctgaagnntc atgtnnatta 180
tgnnctatgc nnattcagaa gaatgnaatg ctaactnnn gaataagcnn acatcaagtc 240
gtgagttttt ctaatgccc a ctgagactat nnnngtttgta ttaattgggt atgccc aatg 300
caatctaaat gcactannaa acgttcaact tcttaaaa 338

<210> 56854
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-D2

<400> 56854

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cgttctaaac accaatgcaa catctaccn gccgcagcgt tttaaaaaag ggaggcctaa 120
acacactaac aactacaac aatgctcccc aaacagctgt atgccaacca aaacaatatt 180
tgtcaaggct gaacataaac ctttttcttt agcatggagc aaccaaacc tgtatttctc 240
tgtacaaacc taattgcta accttttcca tttccatcca tttttgcttc tattttatac 300
ccaacatctc cagcaaaaga atgctttatt tccaattacc tttttcatct ccccttcacc 360
ttatccattt tcttacatta ccctcttact cctaagaact cttttccgca ccattttaca 420
tttcatttta attacttttg gatcctttta ttcc 454

<210> 56855
<211> 191
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-D3

<400> 56855

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aaaaacactc nccctctata acaattccaa ccttacatcc tcgtgcctcc cacaacataa 180

cttttctatg c

191

<210> 56856
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-D7

<400> 56856

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tcattctatgc tggtaagcag cttgctgatg acaagagcgc agaggactac aacatcgagg 120
gtggatctgt cctccatctt gtccttgctc tgaggggtgg ttactagtct aaacctgatg 180
aactagcagt cagataaaact gttgtgtttg ctgcgaaatg tgcaggcctg atgttgaact 240
tgcaaggaga taataacaaa ttatcagctt tgcgctgtg cccagtggaa ggggctgtct 300
tccaagttat tgtctgatat ggaattgttc cagattatca tgtctcggcg tttacccatt 360
attattattt gatttgaacc ttactgtgtt agtcagtttt cataactaaa 410

<210> 56857
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-027-Q1-K1-D8

<400> 56857

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ttgctttccc gtcacctaaa tgacgaaccg caccaagaag gctggaattg ttggcaaata 180
ttgaaccagg tatggcgcta gctttcgtaa gcaaatcaag aagatcgagg tatctcacca 240
ctccaagtac ttctgcgagt tttgtgggaa gtctgcttgc acaaggaaaag cagctggaat 300
tctaggatgc aaggactgtg gaaaggtcaa ggctagcagt gcttacacca ttaacactgc 360
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agcttgc 427

<210> 56858
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-F12

<400> 56858

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 gatcttttga actgaatcaa acttttctaaa ggtgcgggtt tataactagg gtgggtggcc 120
 gaaactctnt cttnncttca tttgtatatg acatcactca ccactcaacc tttcagaact 180
 ttgagcgttg tctgactgat tttttatacc acacaaaccc aaatatactt cttatgctgt 240
 ttggcatcat atcttatcta ccacatctcg tatcagttca caccacgaa ggaaaacat 300
 tcgcagagag ggaatcggtg tacttcatgg agacctctgc gcttgagtcg accaa 355

<210> 56859
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-027-Q1-K1-G3

<400> 56859

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 tctaaaacat ccttcaacat cncacaacat tgtgaacaga atctgctggg ctttctgtgt 180
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<210> 56860
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-027-Q1-K1-H12

<400> 56860

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gggacatgga tcanagtga ccatcaaagt gtattggtgg attaattctt tggatgcattc 180
aagccagcac cagaatgaga gatactatca tctaacaacc ctaacatagt gtttatccca 240
ggcaagctcc ggtgcatttg ccacctcctt gttattttta aacttttatc acttatatgt 300
tgcattangt gatagagggt gagtgcgtga acaattgatg cattaccatt ccttgaaatt 360
taattatctt cattgatacc t 381

<210> 56861
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-A5

<400> 56861

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gagtagagca gtatgtcagt aatacagcat ctatggcatg tgcttttgct cgtccagttc 180
atgagccccg ttgtgtatct gggttccggt ttcttggttg gagtttttag ttccaaggtc 240
cgatcatggt ttgatcccat aaattctctt ccagccttcg agcaactgag tccatcttcc 300
taagtcata gtcctagcga gacattgaat catggggaaa cttaacagt attggtgatg 360
atttaatacta tcttttttgt tcttgagta attcaatatg gactttgctt aaaataaata 420
tt 422

<210> 56862
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B12

<400> 56862

accggtccgg aattgccgga tggacgcacg cgttcgcgga cgcgtgggtt tgcagatgtg 60
aaggacataa agtgtgtgat aaattatgat gttccagcaa ctcttgaaga gggatttcac 120
aggataggtc gaactggccg tgctgggtgct agcggaactg catttacttt tttcacacac 180
gcaaatgcaa agttctcaag gaatctagtg aagattctgc gagaagctgg ccaagttgtg 240
aatcctgcct tagaatccat gtccaggtct tcgaactcaa cgggaggagg caattctcgg 300
tcgagaggca gaggtgggtt tggttaaccg ggccatatgt ctggatcaaa tacctttcct 360
ttaggaggaa gaaggccata ttgatgtgtg caaaagaact gtgggagtat gggactatct 420
gtatactact cggcattaag tgcattcttt gggaaa 456

<210> 56863

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-B4

<400> 56863

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tgggcatgcg ggcaacgtta taggggatcc aatctaata cctacatcca actaactgat 120
cgttgtttta caacgtcacc tctgttaaaa ccattggcct tcctaactca acgtccttac 180
tggaaaaacc cctttcttcc cctacctaata tagctatata gcccatcacc gattgcccac 240
ttgaccaatt ttcc 254

<210> 56864

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-C11

<400> 56864

accggtccgg aattgccgga tggacgcacg cgtgcgatca caagcaaaat caacacggtc 60
gcagcacaag caagaaccac acctactcgg tcaccggtga tcatgttggtc gggctgcggc 120
agcaagtgcg agtgccggtc cagctgctcc tgcacgagc tatgcaacgg ctgcggtatg 180

tacactgacg tgtacaccac cgtcaccagc agcgtcaaga ccacggctcct cgacgctccg 240
accaccaagg tcagcgccgg cagcttcgac gcggtcaccg acggcgacag ctgcgactgc 300
aacacctgca agtgcaggac cagctgcggc tgcttctagt gcagctgcaa ctgaaccggc 360
ccggttcggc gatagctcac gagagtcgag aggacgacga ccaggaggcg tataatacat 420
ataatagcgg tctacagtta ataagatcct gtcaactgca cccgccatta 470

<210> 56865

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-D11

<400> 56865

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ccgattcctg ctgcaaatga agttgaaagc taaacttagt gatatgcgca caagacattg 120
gtgtgtagga ttccgattaa tgtaaatcaa ttgtcacacc aattgctgat ctatgaacat 180
ttaagttgtc tatatcatta gctaaacttc agctgctaag gtcctacgca taaataatct 240
tgacttccca aagcatgaga tcagacggaa ggtgtattat gttcaccttt atcaacac 298

<210> 56866

<211> 131

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E1

<400> 56866

atctgccctg agtggctcct atcgtgttat gtttctgtcg gttcttatct atctgtcggg 60
gtgtgggttta caacttacgt tgtaagactt tattcccccg ctttgctact gggttattaa 120
gtttggcggtt a 131

<210> 56867

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-E3

<400> 56867

ggtttagata taagattatt atagatggat ggtgacacaa cacagcaggg cacatggcta 60

gcctgctacc gtgctgcacc cacacaacac aacacaacac actgctcgcc gccagaagcg 120

cccagggggg caggggagga ctacaggaca cgacgccgcc atcaggcatc atcatcatct 180

cagactcaga gcatgccagc catggcacgc aactaactga ctgactgact cgaaacacac 240

acagcgacgc cgctatactt tatttagctt ataataatta gctagcttcc tccggccggc 300

ctgcaagggtg gagcacctag ctcaattgcc gcagttgcag gggtcgactt ggcagttgcc 360

gccgcacttg caccgcgtct tctc 384

<210> 56868

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F11

<400> 56868

agcccacgcg tcccagcatg gactgcgcac cgatgggtgc tggtagcccc gtcaggctct 60

atgctaagcg gaatcctaag gaaaacaatg gggcttcttg gtgctgcaaa acaacaata 120

actaacacgg gcggcccgtc tagaagatcc aaactcacgt acccgatcat gccacatcat 180

aactcttcta tactgacaac taaaactaat cacttggccg tcagtacaca acgctctgac 240

ttggaaaacc ctgacg 256

<210> 56869

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F12

<400> 56869

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tggtaacgg cggcgccaat cgccaccggg gggcggggcg tgacaacatg gaggggcatg 120

accaagccgg cgatccgcag gttggcgagg aggggccgtg tcaagcgcat ctccgggctc 180

atgtacgagg agaccgcgg attgctcaag atcttctctg agaacgtcat ccgcgacgcc 240

gtcacctaca ccgagcacgc ccgtcgcaag actgtgaccg ccatggacgt tgtctactct 300
ctcaagcgcc agggccgcac cctctacggg ttccggcagat aggtcgcccc tctcccggtg 360
gcgaattact tgggtgcctgt ggaggacgtg ttgagttcct ggactagtta gtctgtgttg 420
cctttatcgg ggctgttttc tg 442

<210> 56870

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F2

<400> 56870

cccacgcgtc cggcccaggc tcccatcggc caaggactgg tgtagtgggtg tggagtgtgg 60
acgtgtgtgt gtaagtgtaa ctgtgtctga ctctatatga gggtggcagg tgcaagttgc 120
tatccaccgt cctcgttggc tcgttgagac ttgagaatac tttgagggtg caatttcaaa 180
ctgcactatg atgttgtaaa ctgggagtta agtattacgt gtactgttaa actcaaaaaa 240
taaaaattta t 251

<210> 56871

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-F4

<400> 56871

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aaataaaaaa aaataaaaat atattaaagg attaatatta aaaattttta aatataaaaa 120
aaaaatatat atatTTTTTT tatttttaaat aatattttat aatattttta attttttatt 180
attaattatt ttttaattttt tatatataaa ttttttttat tttatttttt tttttatttt 240
aatTTTTTTT tattttatttt tattattttt attttttttt tttttatttt ttttacttta 300
tattatttta tattttttta tatatattat tttttttata tttttattat tttttatttt 360
aatTTTTtatt tt 372

<210> 56872

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-G10

 <400> 56872

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 ctgggcaagg gcggcgccaa gcgccaccgg gaggtggggc gtgacaacat ggagggcatc 120
 accaagccgg cgatcctcac gttggcgatg aggggcagcg tcaagcgcat ctccgggctc 180
 atctacgagg agaccgcgg cgtgctcaag atcttctctg agaacgtcat ccgcgacgcc 240
 gtcacctaca ccgagcacgc ccgccgcaag actgtgaccg ccatggacgt tgtctacgct 300
 ctcaagcgcc agggccgcac cctctacggg ttccggcggtt aggtcgcccc tctcccggtg 360
 gcgaattacg tgggtggcggg ggcggtcgtg ttgtgttctt ggtctagtta gtctgtgttg 420
 tccttatcgg tgct 434

<210> 56873
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-029-Q1-K1-G2

 <400> 56873

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 ggcacgccta acgccccaaa gcctgaagag gatgagtctg ctaggctaac gcaagcttac 120
 caccgggggc tgctccctag ggctgtcata tctcaacatc aaagcgggta ccagcctcag 180
 ccactcctga tggagggcca acagcagcat gctgcaccag catctgacta cttcaacact 240
 tcagcaccac cagcagcgga tcggactgtg tatccatcaa tggatccaca gacgatgggt 300
 gctatagttt aaccccatga cagtgaatgc aaaccagtgc cctaacaagc ttggcaaggt 360
 caggcattaa gcaaccagc acatgggggc cgttttattct gcatt 405

<210> 56874
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H1

<400> 56874

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gtgtgtgtgg tcacacttgc cagctagcag aggcgcctgc ttgtacctag attactgtta 120
ccattgtcgt cgtcacgcgc taacattgtc ataatgtcag tttgggtcat gttagattaa 180
gtcaaaaaac caagtcaata atgaagatac aatctgtatg agatatttta ttcggttcaa 240
accattctct atatttaatt gctagtatga tgtgatttcg tgttttctaa ctctactctc 300
tttattgttt tgctttttat tagtattaaa ggggggtcct ttttaaggga acaacttttt 360
gtgtggcgct ttttttatgt 380

<210> 56875

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H10

<400> 56875

tacattccat ccaatatcta catatatatt agacataatc agaaatattc agggattaag 60
gaattctaca aggtgatggt gggatatgaac aactttatca acaacatcta catgaaacac 120
a 121

<210> 56876

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H11

<400> 56876

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ctcatcgggc tcgccggtgg tgacaggatg atgtctgcga ccgatggcag gaagggcaag 120
gacatcactg acgcggctaa cagaagcagc agaatcacgg agcacactgc ttctaacaag 180
aacatgcatg tctggatacc ccacatcgat tctgcgattc cacaacgcct accacatagt 240
tagatacgcg taccaggaca caaacaagcc atgtaagaca tctgacacag taaacgcttg 300

taatcagtca gggaaaaaac atgcaagccg tg

332

<210> 56877

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-029-Q1-K1-H2

<400> 56877

ccggtccgga attccccgggt cgacccacgc ggacgcacga cgtccggcgg gcagatgcta 60

gacattacga ctgctgctgg tgagaagaac ctatacgaca catggggcat gcgatacaac 120

atattggcat cttgattaaa ttacatccgg aagagcattc ttggacagat cactcaacgt 180

cagtaagtaa gctatatcta tttggttgca tggctcactg ccttgctaatt ttcgctacat 240

gtaatgcaac gttcacattt gtactctg 268

<210> 56878

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-A1

<400> 56878

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agggttgagt gcattgctca gctagaagag aacaatgtgt tgagaagtaa actcaaagac 120

attgctgata agtataacat tactcagcag aaatatgctc accaattgaa agagaaaatg 180

atggaacttg agcttgctga tctgagactt caacaacatc aagagaaggc tgctcagcaa 240

catacccaaa tgcaattgta tgccgagcaa gttctcagct atgactact 289

<210> 56879

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-A10

<400> 56879

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tccttgtcgt cgtgtaggtt tgagttgagc tgtcangttg gagtgaccct tctcctgtgt 120
aacgcttgcc tggtagtctc tcagttatct ggacactgtt tgtgttgagt tgtaaacttc 180
aaggggtgcaa acctggataa ttatttagtt attatatgac tatctggtat ccggttta 238

<210> 56880
<211> 109
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-B11

<400> 56880

acttgggggg ttaccatata gcaatgctgc tactgtatga aggggtggagt acacattcna 60
aagggggggg ggggggggata aagaaagaaa gatatcgac gaccaatct 109

<210> 56881
<211> 329
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-B8

<400> 56881

cggnccggaa ttcccgggtc gacgcacgcg tccgccacg cgtccgccca cgcgtccgcc 60
cactcgtccg cccacgcgtc cgcagctcgc gttgactacg tccctgggct ttgtgcacac 120
cgccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaagg gggggccctt taaaaaatc aaattttact 300
acccggggtt ggcaaaactaa taattttttt 329

<210> 56882
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-B9

<400> 56882

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caaatcccaa agcatcaatc gtgcactctg gttagcgcctc tgaagtctga actgaatgtg 120

tcaccccgga' ggacacatctt tgtaaaaaaa acagtagctt tatagcctta ttagactgtt 180

aaaacacact cgactgaatg atgtccgggt ccatcaacaa ggcttcacgg agactgtcga 240

gtacctgacg tgggtcatgt ttccatagc ttgcttctgt gcagttgcct aataagccca 300

ttcgttgtaa actagctagt tctaacttaa gaaacctccc tcagggccta tgcattgggc 360

tctgattatt gtgcagatga actgttggtc tggacatttt gaacatgc 408

<210> 56883

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-C1

<400> 56883

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gggtggtgga aaacctgctg atgtgcgtgt tatggangaa cggaaagaga tcatcnaatg 120

ttctggctct tgcaacagct atttgggttt tctttgagt gctcgactac cacttactga 180

caattgtttc atttgccctt gttcttgga tggttgtcca gtttgtttgg tccaacttct 240

caaacatgct aagcagcgga tcccgttctc aggtgccccg agttgaattg cctgatgagt 300

tatttgtgaa cattgccgtt gcaatcgggt cccaaataaa c 341

<210> 56884

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-C3

<400> 56884

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ccaatgaatt ggccggcacc gtcaaggaga tctcgggtac ctgcgtcagc gtcgggtgca 120

ccttctactg caaggacccc aaggacctgc agcaggagat tgacgacggc gaggtggaga 180

tcccgtccgc ttaagaagga ttggtgtcca ggactgtgtt atctttgctg ctgaagccat 240
 tttctctgcc tagattttct catatttatt tgaggtgggg gtggacgtgg acgtggaact 300
 atggaagtta tcacagcgga gttttgctta gaaacttgtc atgctttagt ctgagacaat 360
 ttatgaacat tcctaggtac aatccaagtt accaggcctg ggtttggttg 410

<210> 56885
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-C4

<400> 56885

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 tgagtggagg gtatattctt atcacaccga acatgtgcat gtagcccctg tttccttcta 120
 ttcgtgttc tttcatgtaa ccatcacaat atatatacat gttgcttaaa taaacaaaaa 180
 ataaaacaag gaatgtacta ttattatat 209

<210> 56886
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-C5

<400> 56886

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 aggctgtatc ggttgtgttc gtgtgtgttt gcccgcgcg ttttttggcc gatgcttgtg 120
 ctntnaataa ctgcccctcc tttgtttgtg atatgcaaaa attttgaagt gagtacagta 180
 caaccaaaca tgttgatgat ggaaaaacga atggagaaaag gggaaaaaca aacaaaaatg 240
 gtttgggacg gcagtgttcc atggttnaaa aaaaaattna aaataaatat tataatttat 300

<210> 56887
 <211> 457
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-C6

<400> 56887

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tttggctgct ctaaatecta agttgaccat tgtgaggaag cactctgctg tggcaaataa 120
tanttcaaat gcaactggag cgacagagtc tgcagatgat gatttgccta gtgtcatgac 180
ttgcgccaac tatcttaaac taccaccata ctccaccaag gctatcatgc taaagaaaact 240
gctttatgcg atcaacgaag gccaaagggtc atttgatctt tcgtgaatct caacactaac 300
ataggatttg gtccacctag aaatctgcgt cattgttacc cagagttagt ttctacctca 360
ttcatgtatg acataggtta aactcagctc tccggagtc caccgaaggt ttggagcccg 420
tacctttggg tgtggatgtc tatactctct tttcttg 457

<210> 56888
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-C8

<400> 56888

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gtcatttgta aacgctggaa cctctccgtg gacgaaatac tggctttggg gcaagaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaatnggggc gcccttttaa aaaaaaaaaa tttatattcc ccttcaatta aaaattaaaa 300
atTTTTTTTT agtgaacaa aaaaaaaata aactgcccc tttttaaaaa cttttaaaact 360
aaaaaaaccc cgctttaacc aaattaaata cttttaaaaa aaaaaccct ttt 413

<210> 56889
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-D10

<400> 56889

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agacaaaata cggaaggat gattacgaga tcagagcagc agagctggtc gcaagttggc 120

aggatgaact aaagaagcca tcctggcatc cttttaagat ggttgaggtt aacggagaaa 180

ataaggaaat tctggatgac gatgacacaa aactgaagtt cctgtggatc gagtacggtg 240

atgatgtgtg caatgcggtg aagaccgcac tgatggagat caacgagtat aaccccagcg 300

ggaggtatgt tgtgccggag ctctggaact tcaggaaagg ccggaaggcg acggtgaagg 360

aggtgctcaa gtacctgttc agtcagatgg acacgacgac gaagcgcang atgggctgag 420

gaagtgcctt ctatgtngtt gcatcagtcg tgtgctgctc gatcccc 467

<210> 56890

<211> 472

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-D11

<400> 56890

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catcgatctc cctaccaacc tcagtgagat ccgtcccggc caggatgtga ctgttactac 180

cgacaatggg aaatctttca cttgcatcgt tcgctttgac actgaggtgg agctggcgta 240

cttcaaccat ggaggcatcc tcccttatgt catccgcaac ttggcagctg cgcataactg 300

aggcaaggtc aacacaccgt ttgaccaca atggcagtg caggctccat gttcccaggg 360

ctagcgacct ggttctcaat gtagtgacat ttgtgatgga tctaggggtc tctttgtcga 420

ttcagcccat aaataaagtg tgaaataaaa gccgcagggtg gaggcaggaa cc 472

<210> 56891

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-D2

<400> 56891

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gaactgggag agaagaatac catcgcgca cgggattaca atattaggga gtagagcacn 120
tactgttggc cataaagacg gcacaagaat ggtgacctta taagagctat gatgatgctt 180
cctccaaaaa agataccacc atctctgcac acgcatatac tgactgtgct gaatgataca 240
atgggtgcgcc aaactgctat cgacgttaaa tgtgtgctgc tgatgtacta caagaac 297

<210> 56892

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-D7

<400> 56892

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ctggaaagta cggtgagctg aaggagagtg tgtaaaagtt ggcagggggg tttggatggc 120
aagtatgatg accttcaga acagtcattc tacatggttg gaggaataga ggaggtcatc 180
gccaaaggcag agaagattgc caaggaatct gcatcataag ggtctacag gcaacgcaaa 240
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gcaggagacc ctgccctgca gaaggatgtt tctctctcc gtccccccac cccacacccc 360
aaaataagga ttgcagtgga cattttaatt tggtttactg ccctttgaag aagaattacc 420
tttttttgat g 431

<210> 56893

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-D8

<400> 56893

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gccttgcatg gcagtcccat aagtattgct cccgcaaaaa aaaaaaagg gaaaggaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg ggggcccttt 240
 aaaaaaaca aaattaactt acccgggctt gaaaaataaa aattttttta attgggaacc 300
 aaa 303

<210> 56894
 <211> 211
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-D9
 <400> 56894

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 cgctatggtt tgcttggtgt atttgctcgg gttagtcggt atgtagtagg gcttgggtgc 120
 ntatcatgct gtatgctacc acaaagactt tgttcacctg cactgcttga tatgccagcc 180
 atggcatatg tgacgagtat ttcattat t 211

<210> 56895
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-E1
 <400> 56895

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 tcatgcagtt gcagaggcag aggctatcag ggcaggagct gaagcagctg gtagggaagc 120
 ataagctgcg gaagcagagg cccgagctgc acaggccttt gctgaagcag cagttttgac 180
 actgaagaac agaaatgctg cgaaattggt atagctcgag tccatgaatc ttagatatgc 240
 cctcttgctc ttccacacgt agaatccagt tccgtagctc tgtatgcaac taattgggta 300
 ctaaaagaac ctgaaatcag aagttttcac aaacacaccg acttattcac cg 352

<210> 56896
 <211> 312
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-E9

<400> 56896

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taaaattaaa aaaaaaaaaa aaaaaaaaaa agtaattgtt aaattagaaa agggggtagg 120
aaaaaatact taattttattt ataataaata aaaaaaaata aaaaattttc ttgccactct 180
ttattttttt tttttttcgt ttttttttta atctttcttc ttttatatcc atttggtttt 240
cttttttatt cctttttctt atttttattt ttttgcttta taaaaatctt ctttttaaaa 300
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<210> 56897

<211> 332

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-F1

<400> 56897

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atattaatcg gccagctggc tatcttgtgt gtggctcaat aggtcacagc aatggctatc 120
attatgctac ctgatgcctt caaagctgta cttacatgtg acaacagtgg tgaatttaat 180
aacattcatg ttgttcttgc ggggctaaca aatacatatt cgcagtatat tacaactttt 240
gaagaatatg agatccaaag ataccacgga gcgttgacct tgtatggccc ccacacattg 300
agcgcctaca ttcacgagtt tcagaaactt gc 332

<210> 56898

<211> 458

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-030-Q1-K1-F11

<400> 56898

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atccgcacga actgatcgag gaggaggagc ttatgaggag gaaactggac gagagctaac 120
gagatagaag ccagctggcg gaaaacctat caagcctatg ctccagcatt ctgaaggtcg 180
ctggagtttc ggactcagca tctgacgcaa ctcttttgaa agcatcggag tgcttgatc 240
agctccagtg ccgtatcgct tctttggaag gccaaagtga ggatctaaat ctaaagtgca 300
aactagtgcg tgaaaaggcc cgctgtccg agctccggag caactcgtcg tctctgcgca 360
caggggcgaa gggcaatctg acatcgccca gtccggacac atcgncaagc atttcgtcct 420
tccgatgaca caagcggacg gatacatcgg cgagaagc 458

<210> 56899
<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-F3

<400> 56899

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cttgggtcaag gtccgtgtgc tttaaagacc cagcttcagt ggcagtgagt gtggctgctt 120
gtgtangctt tggtagctac gggctttatt tgcttccaag tcagggctctg gatgttgtgt 180
actacttggg tttgtcgaat tattatgagc agttgcgtat tgtaattcag ctgggctacc 240
tggacattgt tatgtattaa taaatgcttt gctt 274

<210> 56900
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-030-Q1-K1-F5

<400> 56900

accggtccgg aattcccggg gcgacgcacg cgtgctccca cgcgtccgct atctgccgct 60
ccagcctttc gctagggttt atccaccggc ggcgcgcgcg acggcgggca gatggtgcag 120
cgtctgacct acctcatgag gcacatctat gccacgtagt ccaaccagac tcggatcgtc 180
aagacccctg gtggcaagct cgtgtaccag tacaccaaga agagagccag cgggcccag 240
tgtcccgtga ccgggaagaa gatccagggc attccccatc tgatgccagc tgagtacaaa 300

aggtccaggt tgtctaggaa ccgcagaact gtgaaccgtc cctatggggg agtactatct 360
 ggaactgcag ttagagaaag gatcatccgt gctttcctgg ttgaagagca gaagattgtc 420
 aaagaagtgt tgaaat 436

<210> 56901
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-030-Q1-K1-F8
 <400> 56901

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 ggacggtgtc gaacaggggc ctcatatcgg gggcgggcaa ttcagcaaga tcgggcggta 120
 cgttcagtcc ggcgtcgaca gcggtgccac cctcgtcgcc ggcggcgaca gggtaggcga 180
 caggggcttc tacatacagc cgacggtggt tgccgacgcc aaggacgaaa tgaagatcgc 240
 tcgggaggag atattcgggc cgggtgcaaac cattctcaag ttcagcggcg tggaggaggt 300
 gatccggcgc gcgaacgcga cgccctacgg gctggcggcg ggggtgttca cgcgagacct 360
 gtacgcggcc aacaccctgt cgcgggcgct gcgggcgggc accgtgtggg tgaactgcta 420
 cgacgtgttc gacg 434

<210> 56902
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-G1
 <400> 56902

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 aaggggagag ggagatggag gatgctcgca ggggagagga gcggaaggag gatgctgttg 120
 acaggaatac ccatgagccg cagcaaggtc aaggcctcat cctctcactc gccaacggca 180
 gcgacagcgg caggtctgga atgttgccga tgtcgaaccc ttcagctaat ccacacagc 240
 ttacaatddd ctatggtgga tcagtatgtg tgtatgactc ggtgccacca gaaaaggctc 300

aggcaatcat gcttatagct gcggtgcag cagctgcggc agccacaaa tgcagtgtg 360
 ccactgcttt taatcctcca atgagcactt ttgtagcagc tggacaagct cangttgttg 420
 ctgaccctag ctcaataagc aagcttcagg ctgatct 457

<210> 56903
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-G3

<400> 56903

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 aaaggcttga cccaacaaca acaacaacag cagcgggtggc gccttttgaa gcttgacggg 120
 atgccgctgt cccccaacgt ggtgcgcgtg gccaccgtgc tcaacgagaa ggggctcgac 180
 ttcgagatcg tccccgtcga cctcaccacc ggcgccaca agcagnccga ctttctcacc 240
 ctcaaccctt tcgncagat cccggctctc gtcgacggag acgaagtcct cttcgagtcc 300
 cgtgcgatca accggtacat cgccagcaag tacgcgtcgg agggcacgga cctgctcccc 360
 gcgacggcgt 370

<210> 56904
 <211> 473
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-030-Q1-K1-G4

<400> 56904

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 tgttttgata aacgcattgca taactatgtg ttccggcanat gtcggaggg agagcagagg 120
 agtcatgct cgtgaagatt tcacgaccag agatgacgag aagtggatga aacactcact 180
 gggatactgg gagaacgaga aggttcgatt ggcatacagg ccggtgcaca tgaacacatt 240
 ggacgatgaa gtagagtcatt tcccgcctaaa agcacgtgtc tattgatcga ttcaagccta 300
 acacctcggg aattccatgt aaggtgttaa taaagcagat gtgcgttcct ggctgagaac 360

atgacctgga ttagtgctcc tcattttctg tgtttctgta ttctgcctaa gttgctagaa 420
ataaagggta cgatagaaca catgctaaat cctggctgat gtttgtgtac atg 473

<210> 56905
<211> 222
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-H5

<400> 56905

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tgtttgata aggggatgg agtccaaatg cttaggattt agtgcaactt tgaactaaat 120
ttctagagca acccccttat ttgagcacc atgtatgagc cagattatgt gattccctgt 180
accatcaacc agttgactaa taaataactca cctgttgctt gt 222

<210> 56906
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-H7

<400> 56906

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taacggcaag gatctcaacg tccgtatggt cacctttgac cagaccagc gcctcttctt 120
tctcttttct ttctgcatct actttatctt atctactctt ctattaacca aattatgtta 180
ttcccttctc cttttttcat tttacttact aatacttacc tttttttcta ttaaaatt 238

<210> 56907
<211> 466
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-030-Q1-K1-H9

<400> 56907

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ctgttgccgc tgcttcagac aacagggagg ttagcaaaaa cagttgcaga atatttggca 120
 tatctttgac cgagaagggt ccagcaatga aagaaaaggg ctgtggtgac atcaacacca 180
 actatccatc ccccttcctg tctttgaagc aacaagtgcc gaaatcgctg ggcaacagct 240
 gtgccaccgt tcatgagcag aagcctgttg ttgctagggt gattgacgtt tcaacagtgg 300
 atatgatgat ctgatgtatt ggaaaactgt cctggaggct gtgttgcgta gtgtggacag 360
 tgtcngtttg atggttcggt atcgtgaaga cgggatttga ttgaggatct ggccagatnt 420
 gtatcctagt tgtagctggt agagcacttt gtatgacaac cgtgag 466

<210> 56908
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-031-Q1-K1-A11

<400> 56908
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 ctactcctcg acagattgtg atcacgctga atgggatcta gcctaagggtg atctatgtta 180
 agagctggaa atgcaatgca gcgacttcga catgtttaaa tcagatgcac tgaaactgaa 240
 actgtctatg gccagttgt gataggcgtt ccagtggaga atgttatttg taatatgatg 300
 ctagcatgag gggaacaaaa tctcttaacg agcttattct catgttgagc ttgtttagct 360
 atcttgggtg gtttaaaaaa tatta 385

<210> 56909
 <211> 170
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-031-Q1-K1-B1

<400> 56909
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 aaagtttcta tcgtgatcaa tagcactccc tttttaagac acagcacacg gacttttgat 120
 tatgaaacat ctagtacttt cattaattta tattctatac aaacctacta 170

<210> 56910
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B6

<400> 56910

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 tcatgtcgag gcgttgagag tataatcttct gtcaaaatct ctatccagat tgaagaacca 120
 gttccaaagt ggaaatggcg tgattacggt cgactgcac gaaggttatc cactaatcag 180
 gttacagcta ggaaagcatg tttttctaag tgcaggggat ttgtatctgg ctagtcgac 240
 ctaatttttg tgtgcagcat cccaattttg actgattcac ccatcatttt gccgcaatcg 300
 gcttaaacag cttgggtcca tttatgcatt catattcact tggtaaagggt gaaaaattcc 360
 aatttatgat aaag 374

<210> 56911
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-B9

<400> 56911

tgacgtaccg ttccggaatt gccggatgga cccacgcatt cgtgagcagc tatgtgtatg 60
 catgttgtct acttaciaaac ttatatctgg tttgaggtcc atggggatca actaatgggt 120
 ctgggaatth atattatgat gttgacgata aaaataaaaa attactatta aaatataatt 180
 aaataaaaaa aataaaatat aaaaaataat aatataacta atttataatt aaaatataat 240
 aacaaaaata caaataaaat ttaaaaaata taatatatta attatttaatt ttaaattata 300
 ataatttaaa actttttattt t 321

<210> 56912
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-C7

<400> 56912

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ttgcgaaccc tcgctgttcc ttcggcatga cggctctgcg tgcccctgct ggccggatcg 120
tgatggatct gtacgccaac caggtgcccga agactcgtga gaacttgccg gcgctgtgca 180
cggggcataa gggcgtgggc aagtccggga agccgtttca ctacaagggc ttcaccttgc 240
accgtgtcat acccgagttc atgtgccatg gcagatactt taccgcggc aactgcaccg 300
gctgcgagtg catctacggt gagaagtttc ccgactagaa gttcgagcgc aagcacac 358

<210> 56913

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D7

<400> 56913

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atttagctca tacgcacact tcagggctct gagatgacat gtcattggaga atacaatata 120
cacactt 127

<210> 56914

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-D9

<400> 56914

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ataccttctg catatgaact tgaaagctta acttagtcat atgggctcat agtcataggt 120
ctatagtcat aagattaatg taaatcaatt tctataccat tatctaattc atgaacattt 180
atttacatta ttttatcttc taaac 205

<210> 56915

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-E3

<400> 56915

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caccagtgcc caattgcatt gattcctact cggtcctac atgggtgccta caatggatgt 120
cgtcggggccc gatcactccg acttctgtgc caagcctgcc accaacgggt aggcccagtc 180
cggcgcc 187

<210> 56916

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-E8

<400> 56916

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cccctaggat caagatcgag ctatgtaact cgagcagggg gagacgtaag cccgctggcg 120
ctatatcaag gactaccaat ccatggcctt ctctctcaac atatccattg agtaagctct 180
cgaagattat gacaacgatg aactctagca tttttaagc tagaacctca tttttcttat 240
ctcacagcga tgggttctcc att 263

<210> 56917

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F11

<400> 56917

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gctcgcatgt tcgaccgtgc cacctctagc atgtacaccg tgcgctctt cagaactccc 120
ccgttacttg tatccgggtgc atgccaccgt tctggactga tatctttag gttccactta 180
ggaatcagta tcagcgactc tatectagat ggttttagc tcgcacggca ctcgttcttg 240
cgtcgcatcg aaaccttcag gctaaatgct tagttgaaac tggtcccgtg attcttaagc 300
tatctatgta tctgaggatt ccccgcatg ctttcgacga tgaacttgaa taatttgaat 360

gcacgatgat tgttt

375

<210> 56918
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-F9

<400> 56918

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gggcgccagc gtctgggagg ccattgctgc cgtggtcgag aggtacgcca gggaggggag 180
aagcccgccg ctggatccgg ccgcagcata gagcttccaa cttcaccact cccacttcag 240
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gcacaagaac gattcaagca acgacgggct ctacctacag ggccaggatg agcccggtgc 360
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tggcgctaca agtcagtacc aggtccttac cat 453

<210> 56919
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G11

<400> 56919

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aacctaattt aaattaattg gccttatttt taaaaacttt taat 104

<210> 56920
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-G9

<400> 56920

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tggcctagta cgacgtacaa gtatacctgg gcatctggag actaccaatg cgacatctat 120
agcatacatg ctcatcacc ccacgaatac ctagacttac aaatataaca ctggctaaaa 180
ctcgaagctg cactattgca gtctcgctt accgatacgt gctgaccata atatcatgtg 240
tgtaacaagg gacacaatag tggcacgtct aaagcattgc gcgaacaggc tcacactgcc 300
accactacct ttacagttcc attatgagca gccattacta gtggatctcc tagtttgaca 360
ggttcgcgaa caaaaaatct gcatccttct caaaacacac ac 402

<210> 56921

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H2

<400> 56921

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gtggccgtgg acgtgaccgt ggtctagttc gtgcacgacg ccggggacgc gctggacttt 180
aacaagttct gcgccgtcga cgtccgcccg gggcttacgg agatcgtctg ggcgtggcag 240
ggcgacagcc tcggcgacga cgtcggcacc gcgtgaacaa gcgtccccgt ctgtcacgtg 300
gaagttgtag caactttacg taggagttaa acacggctgt actggcacca gctttttata 360
gcatgtaaag t 371

<210> 56922

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-031-Q1-K1-H3

<400> 56922

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ttgattgaaa aaaaataaga tatattttat gataggatag g 101

<210> 56923

<211> 326

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A1

<400> 56923

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 tgattaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaataa aaaaaaaaaa ataaaaaaaa aaataaataa aaaaaataa aaaaaaaaaa 240
 aggggcggtt attttaaagg aaccaagctt acataccctt ccatgcaact tcataaccct 300
 cttttagggc cccctaaatt caatta 326

<210> 56924
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A2

<400> 56924

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 atcgtatatt ctgtcatcag tgcccgatca gaagatgtag agatgtgctg ggttctgtag 180
 tttgggttac tgtcgaatca tcgagtagtt ggttggtcac tgctgtaact tattatcatg 240
 atgcatatga aatggcaatg aactatgtta tcagttcttg taaaaa 286

<210> 56925
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-A6

<400> 56925

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 atgtgatctc tgtttactga tgcggctgga gcgtcatgtc aactgctcac cctcccccta 120
 acaaattaaa ctacacggat gagtggagct tcatgttggg atgatccatg caccttttaa 180

gttttggacg tcgtactcaa atgtagcttg tgttggttga acctattgta ctttcttttc 240
gatttaaatt atatgatatt taaacatttt gatgtttaa a 281

<210> 56926
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-B7

<400> 56926

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gaccatgaga cccgcaagaa ggtgaagtgg gtgtactaca acgacaagga gagccataag 120
ataatggctg aagtctttga catggacgag cttgactcgg cattcggggg aaagaaccca 180
gcgacatttg agtacaacag cttcgcagag cagatgcagg atgacgacaa gaagatggga 240
tctttgcacg ggtcaaccaa tagcttgctt ggatcatctt ggaaggatgc taat 294

<210> 56927
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-D12

<400> 56927

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gtggtgacaa gtggaagtcc ctgtctgatg ccgagaaggc tccttacgtg tctaaggcag 120
agaagctcaa ggctgagtac accaagaaga tcgacgtta caacaacaag cagtctggag 180
acccacggc gtctggtgat tccgacaagt ccaagttcga ggtgaacgac gaggacgagg 240
agggtgacga gtgatgtatg acggatgaaa ctctgtccag tgtttgcagt caggg 295

<210> 56928
<211> 123
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-D6

<400> 56928

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 ttcccttcct gctaccatct gtgacagatc cgctcgctaa tatgggacct gagattagct 120
 ttt 123

<210> 56929
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-E12

<400> 56929

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 gcctgttttt attcgtgagt tgtaacgctg cggttcgagg agctttagtg ctgtatgatg 180
 tgtaaactat ttgttgtaag ttgtaaccaa ttgttgtaag ttgtaaccag ccac 234

<210> 56930
 <211> 230
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-F10

<400> 56930

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 ataggcaaag gcatgggtgcg cctctaagtg ggacatcccg tactgggaga cgtctgctaa 120
 ggatggaacg aacgtggaag atgccttcca gtgtattgta aagaatgctc tgaagaatga 180
 accggatgaa gaattgtatg tgccagatac cgtggatgtg gtaggtggca 230

<210> 56931
 <211> 478
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G1

<400> 56931

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caccactcca ctgggcatgc cttaatggac gtatagaggt aatcagggct ttgatctcag 120
 cgggggctag cgtgagtgtc ctgaacagcc acgagaaaac gccaatggac gaagcgggtga 180
 ccacaggcaa gatggacgtg atcgacgcga tcggtgcggc agtagctcaa gccgagctcg 240
 acggcggttac tgtctcctaa aaggacctga tgagtacctg gagctttgaa tgacttgtag 300
 ccttgttctt atctcccagc gggtctgtct gtatcactcg cgaacctgaa tccccgacgg 360
 ccagtatcc gggcaatata tatactgacg gcaatgcct gttagtgtca ttggcttgaa 420
 gacatgggag gccgaccgca cctgtcgttg taaaccagat gtgcagatgt caaagatc 478

<210> 56932
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G4

<400> 56932

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 gaaattagat acagagataa ataagctgct ggagtaagtt agcctcaaac tgattcgcta 180
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaaaa 240
 aaaaaaaaaa aaaataaaat aa 262

<210> 56933
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-032-Q1-K1-G7

<400> 56933

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 agagcctgtc aggctgtga tcaccagcat caatagagat gtcagtcgtt gctagagatt 120
 tggaccccat ttgtcgagaa ttttctggtg ttgcgccgtg cgatacacia catacatgaa 180
 aatagaatat tagctgatct ctgggggtag tgacgaggaa tgctgcgtgc aagtaggttt 240
 tcgtgtatgc tggattgttt gccgactgac tgagcatgtg aagcctcaac tcaacattca 300

aaat

304

<210> 56934
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-A1

<400> 56934

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agaatgcatg caggtccatg cgaatgaggg tggcggtact caaactcggg gtggcatata 120
ttggataatc ttgcccgtcg gatatctggg ttcactcttt tggggaatgg tgttcatact 180
tgcattccaca aatctcctca ctacaagaat tgcagcgggt tgtttcatac ttgcactggt 240
tattgtcctt tttgttgacg acaattgggt tcttcgctgg ctctgccttg gattcattgt 300
attcattgct gttgtttggg tcatacaaga atttacatct ttccatattc tgaaatatgt 360
gatcttattc ataggtgtga tgaacagctt aattttcggt ttattgatat ttatgacgac 420
tttga 425

<210> 56935
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-A11

<400> 56935

accggtcctg aattccccgac tcgaccactc cgttccatca ctaatgattc tttcttaatt 60
tttgttatta tgcttt 76

<210> 56936
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-A12

<400> 56936

ctacttgtct cggaattccc ggctcgacgc cactcggtccg ctgactcatg tgcagacgcg 60

tgggtttgtt aaaaaaaaaa aaataataaa aaaaagaagg tttttataaa aaaaaaaaaat 120
 aaataaaaaa aaaaaataaa aaataaaata aaaaaataat ttaataatta atcaattttt 180
 attaattcat tcatataatt attttactat tattattata ttatataaat aattaattat 240
 taatctattt tttttattta tataattatt tttatttatc ttatttattt ttttt 295

<210> 56937
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-A7

<400> 56937

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 ggtcggcaac aagtccgacc tgaaccacct gaggtcgggt ccagaggaag atgggcaggc 180
 gttagcggag aaggaaggcc tatecttcct cgagacatcc gccctcgaag cccttaacgt 240
 cgagaaggcg tttcagaccg tcctctccga catccatcag atcataagca agaaggcgct 300
 tgcagcccaa gaggcagcat gtagtggacc 330

<210> 56938
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B1

<400> 56938

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 ctccaagtgc tggcccaagg tcaaggcgat caagaggcat caggatagga acattgtgga 120
 acaccgcagt catcacggac gttcaggaag catgcgccta tgatggcta 169

<210> 56939
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B10

<400> 56939

tacttgtccg gaattcccgg cggcacgcca cgcgtccggt ttggagggga tcagttcacc 60
attctgttca atgtctccgc ttccatggca ttggctgctt tcattgcgct gggctctaac 120
tcggtgatct ctgcttactg cttcttcagc taggtttcat agagctaccg tcgtgcattg 180
catgatgtga ataatactac ctgtatgctc cttgcagcac tgaaccttga ttcatgtcaa 240
attcctacac gatttctgta aaatccctaa actccaaagc gggcctatat tgttgcagca 300
cattgagtca aggttggcct ttaaaatt 328

<210> 56940

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B11

<400> 56940

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gtgctttggt atcacaactg ggtgggaacc agcagaagcg gcttggagga tgtctaccgc 120
cttgaagtc cctttgagct tattgagcta ctacatagc ttgtgcatga agttgtgaca 180
tctgcaggct gaagctatat acagttaaaa aggcacggt acgcatctgt atctgtaatc 240
attatgttta tccactctat gtcta 265

<210> 56941

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B2

<400> 56941

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atatttaatg tgatattctc gtccaaggcg tttgttgctg gcttcggggc atattggctg 120
gacaacacta ttgacaggca tgaagcttaa gtcaggagaa accgatgcta ccattggtgg 180
gacaaattcc ggctgtacag gaccgataca agaagcgagg agttatatatt cctgccattc 240
aatctgaata 250

<210> 56942
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B3

<400> 56942

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ttctaggaaa tgataatctt ttttcatctg gtgatctaac ggcatgaagg aacctttggg 120
tgctgtacac agttgggttt gtagtgccac caccatgccc ttgagcagta tgctgatcac 180
tgtaagtaga agcgtaatgg ccggaacccg gtgtgtcttg acgttgctcc agacgttttt 240
ctttgcggta gaacgttaag ggcatgtttg gaaacataat ttttttagta tcaagataat 300
accgtgatgg caacgactgc tatacaagca gtctttct 338

<210> 56943
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B7

<400> 56943

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gataccctag ctcccgatct cgatggcgaa ccgtcgcgtc ttcttggaca tgaccgtcgg 120
cggcgccccg gcgggcccga tcgtgatgga tctgtacgcc aactagggtgc ccaagaccgc 180
ggagaacttc cgcgcgctgt gcacgggcta gaagggcgtg ggcaagtccg ggaagccggt 240
ccactacaag ggctccacct ttcacgtgt catccccgag ttcatgtgcc atgacggcga 300
cttcacccgc ggcaacggca ccggcgccga gttcatctac ggcgagaagt tccccgacga 360
gaagtctgtg cgcaagcaca ccgtccccg tgtgctctcc atggccaacg cctggcccaa 420
cacc 424

<210> 56944
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-B9

<400> 56944

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atgaagtcaa agaaaagaaa gggaaaagaa agtttgggaa agttcgtgca tactattgtt 120
gcagacacaa tggttactgg agtcagaagt tgacatgtca tgttgtaaca ggatcatcgt 180
cttctgttca gttaggcctt atttttgcta gtcctcgaac taatggaaaa ctattccatc 240
tttaaggccc catcaaattg taatgtttta ctatgaaaag gttgggtcac ctttgtgt 298

<210> 56945

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C1

<400> 56945

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aacttcctga atcgaattgc ccaggagcca acatacctag agctttggtt ttccttgtat 120
tgaagcaagg atatgtggaa gcgctcggca catagcctgc tttggcactg cgagttgaaa 180
ctaaatggaa aacggaggcc acctgacgta aatgagtgcg attgtaataa attgtatgta 240
gttcatagct gggttggtat cagagttcac catttcgttt ttactgtagc gaatttcgtt 300
ttttaaccaa agtttgacta 320

<210> 56946

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-C11

<400> 56946

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gtcccttagc tttggagact tgaaccactt gagcagtgc aacgatgagt gtgtcacttg 120
ctgcctacgc ttcccaggac agcttaactc tgacctgcgc aagcttgacg tcaacctgat 180
cccgttcctt cggtccact tcttcatggt cggctttgcg ccactcacct cgcgtggctc 240

gcagcagtag cgtgcactca ctgtccctga gctaaccag catatgtggg atgccaagaa 300
catgatgtgt gctgctgacc cagccatgg tcgttattct acagcccttt ccatgttccg 360
ttgcaagatg aacactaaag aggttgatga gcaaatgat 399

<210> 56947
<211> 246
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-C8
<400> 56947

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aaaaaattta aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa aaggaaaaaa 120
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaac aaaaaaaaag actaaaaaca 180
tcaaaaacaa caataaccag aagaaagcaa cgaagaaaga cctaaagaag agaaacaaca 240
agataa 246

<210> 56948
<211> 55
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-D1
<400> 56948

aattcctcgg tcgaccact cgtcctatgt aggaagtctc gccgcaagct tgcac 55

<210> 56949
<211> 327
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-033-Q1-K1-D5
<400> 56949

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ccggtgtgaa gacgtactgc aactgggcca ccttccccg gctctacgac aaatcgtagc 120
tgattggggg atgtgatatc gttcttgaga tggataatag cggatagctg aagtcgaccc 180

tgtcagagta gacacctagc tagcattctt gctttgctgg cgtttttatac acattgtctg 240
cattggatca ctctactctg gtattcatgc catttatattc atagatccac tttgggtacta 300
gttctgcatt gccacattgc tagaatt 327

<210> 56950

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-D8

<400> 56950

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tgccactaaa catgtgctgg ataagggtgc cagcaacatg gtagcagcgt gtggggaacc 180
tgaggagctc ccattataat tgaagaatct cttggagaga cagcagacga ggtaggggca 240
aataccggcg actagagtaa ccgctgctac cagcagcatg gtggtcggga cggcaccacc 300
atgctctttg ctcttcaggt caaccttttt tagcgctatc gcaagaagca ccgggcagac 360
catcaccacc gttct 375

<210> 56951

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-E1

<400> 56951

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tgggaggtgg agaaaaggta gttagtaaag aggttaagcc agcaaaaagat gaggtgatcg 180
acaaggacct attgcaggcc ttcaggtact ttgacataaa tggagcagga tatctcaagg 240
ttgatgattt aaaatgtatt cttcacaaca tggggaagtt tttatcaagc atggacgtga 300
aggacttggg tcaaattgct cttgctgaga gcaattctgc aagggaacaat cgcataatct 360
atcctaagct tgt 373

<210> 56952
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-E10

<400> 56952

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tcctctatct gtagaagaca agaatggaac tgctggggta caagatgctg ctgaaaatcc 120
agaggcagaa gaaactaaca ctgctgcaga ggaaacacct gctgtagagg aagcaagtga 180
gactaccgag gaggaagagg ctgagaaacc tgagatcaag atcgaaacag ctccagcaga 240
ttttcgtttc ccaacaacaa accaaacaag gcattgtttc acacgctatg ttgaatatca 300
caggtgtgtg gctgcaaaag gtgaggatgc acctgaatgt gataagtctg ccaagtacta 360
tcgat 365

<210> 56953
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-E12

<400> 56953

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gaacttgagg tccggcaatg gggaggggtc ctagtctcag gctcaggctg ttggatgcaa 120
ttgatcgttg cagtctctgt cacttgcttg ctcatgatct ttgggactct gagcatcaca 180
aggcgttttc actgatgctt atctcggtaa gaagattcgt tagcctcttg cctgtgatct 240
caccatttac tctaccctgg gaatggaccg gttgcattgt aacattacgt ttacatgagt 300

<210> 56954
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-E5

<400> 56954

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 atatcagact acttgtcctg acacctgtat tcaatgtcat cttcatgcag cgaacgtttt 180
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 tgtatcactt atctttgcat gttcaccttt ttttttacca tcttttagacc ttgttctcta 300
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 c 361

<210> 56955
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-033-Q1-K1-E8
 <400> 56955

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 ttaatgggtca caaacaaggc ttacagtcac agtcctacga acaaatttga agctaactctg 180
 ctcttggtac gcctaacaaa tactctatcc gtatcttttt agttatagct ggatagttca 240
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 tt 302

<210> 56956
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-033-Q1-K1-E9
 <400> 56956

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 aaccaggaag ggtttcccag gaaggcatca aggtatgagt ttgatgataa taggcctcag 180
 caaaatatcc cagacagtca gcatttgcca aggatttata atacagattt tgagaattta 240

atatatccag atagttcatg aaatacaagc aaaatggaaa ctaggatgac acatgggtgga 300
atgctagagt atgc 314

<210> 56957
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F1

<400> 56957

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gcaccaactg tctcaggccg acgtcaagct cctttggtgc cattgcaggc tgtccttgta 180
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caggtagcgg tattgtgcgt gaaggacaac aagggatgct cagtaagggt aggccatgtg 300
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accattgttg agttcctgaa agacagttaa ct 392

<210> 56958
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-F3

<400> 56958

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tgaggaggctg tcattgacat gtatgggcaa tgcgttatat tcattacagt gactggcatt 120
aacgtagatt agcgaatcac ggtaaataca ttcattcttg ccagtatcga tggctgtcac 180
tatatttcgt tcttacaata caacatgcat ctctagagat cttgttcttt aaa 233

<210> 56959
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-G1

<400> 56959

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ctggttgtag ctagcgggtgg tgcgggtggtg atgttcttga ggcatgaata atgctacatg 180
catgtgatgt atccatgttt tgtgtgtggt aaacctgttg tttgtataag ctgtatgcat 240
gtgggtcttt aatttgtttt gaaagcaggt ttacgttatt gaaaaatata tattatatat 300
attttatatt tcttatatat gtaatttatt ttttttatta ataaaaaggg cgggctttt 359

<210> 56960

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-G4

<400> 56960

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tctctgtgct gtgcgcgtgg tctggctact gtcactctga tctcaggcca attagattct 120
caagctgctc taccgtctta acaagatcta ccagtagtca cacactccag cccat 175

<210> 56961

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-G5

<400> 56961

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tcgatgcatg tatttctaaa gggagagctg aatttgaagt gtttgcctg gcttattctc 120
ctgaggaatg ggaactggct acattggtgc tcacacgacc taattatcag attaagttca 180
aacagaccgg ttatgttgct attgacgaga agtactcaca aagtctacag aaaaaattt 240
caaattggcg cacaactcag tttgttttaa taactgcggg tacaactctt tcatttaaca 300
cacatggaat tcatagcca aacaatgagg atttctatgt taggttacgt gatctaactg 360
tattagtcac gataactttt cagaaaaagg ctctagatgc ct 402

<210> 56962
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-G7

<400> 56962

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ggagggttcaa cagtctcagg gtgaatctgg taaaggacgg gtcggtaaag ctgggtgtct 120
agtgaaaacc gtaccgactc tcgttcttgt gtgtgtgtgt tgtgtgtgtg ttcattgtagt 180
tttaggtcct t 191

<210> 56963
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-H10

<400> 56963

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ccgcccacgc gtcctcaaag gacgtgttgc ggctgcatgg gagaacggaa acctactgga 120
catggtcgaa gagtgcttat caccaacatt tgattgatgc ctgaatatca atatatcggt 180
gtgacatggt gttgatgttc aggagccaca catgctcatt gccaatggag ttcactcctg 240
tctttcgaga accaaaatgc cttgggtgtt aagtgcgtg ttgcatgatt cttttcctcc 300
gccccgttca gttaatatat atgtactat ggatctaccc ttttggacgt ttttgggtgct 360
t 361

<210> 56964
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-H2

<400> 56964

ggaattcccg ggctcgacgcc acgcgtccga gaactcttcc tacttcgtag agtggatccc 60

caacaacgtg aagtcgagtg tgtgtgacat tccaccaatt ggctgaaga tgcctccac 120
attcgttggc aactcaacct ccatccaaga gatgttccgc cgcgtcagcg agcagttcac 180
ggccatgttc aggaggaagg ctttcttgca ctggtacaca ggcgagggtg tggatgagat 240
ggagttcacc gaggcagaga gtaacatgaa cgacctgggtg gccgagtatc agcagtacca 300
ggacgccact gccgaggatg aggagtacga ggaggaagaa gaagaagagg aagagaccta 360
agtcattctc cgcaatgctt ggtacagata tgatattcct tgtatcgctg ttagtactcg 420
tcagtttgag gttcgtgtgg tgatgcttgc taggtactag atgggggt 467

<210> 56965

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-033-Q1-K1-H6

<400> 56965

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aaataaaacc tgtacacgtg tctggccaga tcgtgccgtc gatcgctctt cgttgttgat 120
ttttggttgt attgatcgat ccgatgtgt gcgtgcgtgt gtggcgttgc tctttcttct 180
tttgtgtagc tgtgccctgc caccggccga cgtgcgtgca tgccatggtg gcgggcagcg 240
ttttctaagg tcatatactg ttgttgtgtt taagtaaaaa aaaaaatcat taatatatat 300
tttttaatta ag 312

<210> 56966

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-B12

<400> 56966

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cttgcttaga atacgactcc aacaaagaga gcagcgcgaa ggaattcaga gggtgagagt 120
gctccgttga gtcattcaa gaggcgacgg cagtctctta tggacgatta tgtgggctcg 180

ggaaggcgaa agagaggggtg atgtgatgtt tgacatcctg cctttggagc tctcagcgag 240
atgcagtctc tgcaatgctt taagcccgta cgtgctgtgc ttagtttctt gtgcacgtga 300
gttgaatgcc tcaagggctg gtgactttgt agtgaagtt atgcaacgat gacatagatt 360
agttattata aatcctaaat gaggtatgta tgcgcatgct gtattgtagt gctgtagatt 420
cngacttcgc aattgcaact ggtgcttcac ttttgggtcaa tgatgatgcc ttt 473

<210> 56967
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-C1

<400> 56967

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acactacttt tctcaatgaa caaacacatt cattactctt aagaacattc ccaatttctt 120
tccccacntt ttatctcaca aatattttta ctactcatac tctaattaaa cttnttttta 180
aaattccaaa aaaaataatc atacttcaac aagcccctaa aatttcatca catttctttt 240
tctctctttc tatttatcat ataaacaaac actaactctt acaaaagcaa tatctatctc 300
acatt 305

<210> 56968
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C12

<400> 56968

gaattcccg ggggaccgac gcgtccggt catgaaggct aagggttaata tgtttaataa 60
caagagggtta cttatggaga ggggtccggag gtccaaggct gagagggcga gatagaatac 120
actttcagat cagtttgagg ccaagcgtgc aaagagcaag gcaatccgtg agaggaagat 180
tgctaggagg gaggaaaggc tggcccaggg cccaagagaa ccaacagcac ctgtcgcagc 240
cccagctcca tctactgggg tgccaaagaa agcaaagaag tgaagtatgg aaacaaagct 300
gtagcttttt ggtactatat aagcatgact ttggagcacc tgaagtattt tgctgttcta 360

tagtttcgtg tctcaatatt ctgagtccttg tatctctacc gttctgttgg ataatgca 418

<210> 56969
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C2

<400> 56969

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tgcttatacc aattcttcaa gagcgacaca ttttgatatt gtctgtaaga agctcgagtg 120
cacttacgag cataacccca acaacgacgt caacttgacg catttgact tatcactact 180
aaaactatca caactcacta acagacccaa cagatt 216

<210> 56970
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-C6

<400> 56970

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gtgtaccgtt ttgaacaaaa taagctggct gcttctgcaa gagaggggga tggatgcattc 120
tttaaaagat tggatagctt tcagccatgt gacatacatg aactgaaacc tggaacacac 180
ttctttgctg tctacggtga caacttcttc aagagcgcta gttatactat agagggttgta 240
tgtggtgaat cttttcctgc cgaaaaggag atgatacgaa atggggaggc cttaaagcat 300
gccatgtaat gtctgtacca aagccagtat ttgcaaggat agaaaccgag gtggaagagg 360
aagcccaagc aagttcaa 378

<210> 56971
<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-C8

<400> 56971

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ccatctaggg gtgggggagg cacttcgagt ggtagagcgg tgtcntgttc tatggaccgt 120

gcgggtcggg gctggaccac ggcgtggcgg cgggtgggcta cggcagcagc aaggggcagg 180

actacatcat cgtcaagaac tcgtggggca cccactgggg cgagaagggc tacatccgca 240

tgaagagggg caccggcaag ccggagggcc tctgcggcat caacaagatg gcacccctacc 300

cgaccaagga ccattgatgg atcatggacg acggagatca tatctatctt cccttcctt 360

tcacccgact ctttcgattt ccacgtttt cccctttttc ctgaatgtgt gtgttttttt 420

tatatattac tgtgtcaagt aatttctcga t 451

<210> 56972

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-D10

<400> 56972

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ctttgtgcat cccggaccat cggcatctcc cgccagaggc catgtggcat ggtgagctgg 120

cttcacnaa cgaccatctt ctagaagctg gcccggcgag gcccgccaat gtcgcgcgcg 180

tacaacaatg aagcccacca tcacctctc tcgagatcca gacctccgtg cgctcgtgc 240

tccccggcga gtcgccaag cagccgtct ctgatggcac caaagccgtc accaagttca 300

cctcctcta ggcttgcaag ctgcctctt gtaggcttct cttgtgttga tgttcgcctt 360

gtgttgtagt tagatgttgc tggtttctct gtcggcgtg ctcttctttt gtaggaactg 420

cgtcatgtaa cccaacaagg acttgtttat ttgtgaatc 459

<210> 56973

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-D4

<400> 56973

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 tgatgcaata aatcatgtgc acaaagtgtc tgaagtacat gtttggtgag ccatatgcct 120
 aggtttttgg gaccggatgg gacaggatgt gctgagtttc ctggagaatc gcaaagaaaa 180
 caaagcctgg tataaagggtg cacgagtcgc aatctcagta ttggatgata cttttgcatc 240
 ccagctgcaa cagctgctag gtaatacaat cccaccgaag gacctagagc caccagatc 300
 tatcgtggaa gttcgctcta ttctctgcaa agatgcaccc cgccagaaga attctagttt 360
 ctattattga tgatcaagct taactgtaca tagtatccat gcgcttcgca tgcagctttt 420
 ctcttgagaga gag 433

<210> 56974
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-034-Q1-K1-E4
 <400> 56974

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 tggagggtcag atcagagcat ttcagaagtt tgggtttcct gctcgagtat agtactgtag 120
 ctatgagacc gctgcctggg cttggcgtct gccctgcagc aagacgggtg atttttgtgt 180
 atagataggt gaaagtttgg gtgatctgca cgcagtctgg gactggattc tgttgctgct 240
 cctaggtgca cctgcctgcg aacttcaact aacctacgac ctggtactca aggtacggcg 300
 aattcgtttg cccggaattg tatatgagaa tggagcccg gaaggacgag cgggcgtcng 360
 ccggtttgag ctagatcttt gggatccttt tggcagccat cttttcaatc tgtttctcca 420
 ttgagtccaa gttaactttt tcaatttttt ttac 454

<210> 56975
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-034-Q1-K1-E7
 <400> 56975

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 cctagccagc cggcaaagat gagctgggtga ttgtaatgag gaggagagga ggccactgct 120
 accctactac gtaccctcct ctttgtgtgc tgccatccgt ccccgttaga cgatcgagga 180
 gagaataacg catagctctc tgctcccggc ctgtcttctg ccgtcccggc cgtttaattt 240
 actagtgtgt tcgtcctata tgttttagcag cagcaggtgt attgtgcggg tatgtaatgg 300
 tattgcaact atattgggtg taaaaccata ataaatgtgg gcaaatatgc aaggaaaaaa 360
 aaaaaatata aatatataat aattaaatta 390

<210> 56976

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-E8

<400> 56976

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 atttttttat agtggagttg gtctcatagt ttctcgtttt cttatattac tcaccataag 120
 cttacaattc tttggctgca caagggttgg accattttgt tcataaattg cgatttaggg 180
 cagccgtatg cagtcatcca tttgtatatt cttccattgc tgtgataaga tggtaagaat 240
 gctcaaaatt ttttttgggt taaatgaaaa taagaaaaac tcattttgat tctaaaaaaa 300
 aaaaaaaaaat aataaaaaata aaaaaataat atgggcgtcc gttctaaagg atccaatctt 360
 acatactctt tcattcaaca tcatatct 388

<210> 56977

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-E9

<400> 56977

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 tgctgaactt ccctaattta acctgcagac ttttctaaga gggaggagga ttacnaacca 120

catcaacaan ttcttctagc aattgaactc tactaatcta accttcaaaa tgaactctta 180
tagatcacca ttactatcca caacaacaac attacaatat tcatcgggag atcaattcat 240
taccgctcaa caattatcat cactatcacg catcaaactc cattaccatt gttagaccgt 300
cttctattca aattgacttt ttcaacacta ttaacccaaa attcacacca cacctaaatt 360
aatcatcgggt tttctacatt aattctacat atcataatga tatttggtat cttgcatcta 420
tattttata 429

<210> 56978
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-F11

<400> 56978
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tccttccctc ttttgcgta ggaaggagca ggttgcatat ctgatctgag cactgtaatt 120
atttcttcag ttctacaaaa aaaaaaaaaa aagtataaaa ataactataa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaagtaaa aaaaaaaaaa aaaaaaaaaa aaaagggggg 240
ccgttttaa 249

<210> 56979
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-F4

<400> 56979
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ctggaccact ccgtgcggca tgtggaggcc gcgctgctgc aggtgacggg ctgcagctgc 120
cgctgcaagt tccgggcgcg tgtgactggc ggcggcgcca tgagctccga ggtggccagc 180
tacgtctcct ccgttgtaac ggccgagggc ggcgacgccg aggtggacga cgacgaccgc 240
taccgccacc accggcagct caccgccgac gacgacgcgc cgagccacgc taggatgatg 300
gacatcaact agcggccggc cggcgcccg ccattctcgt ctcgtacgtc atgcatgcaa 360

catttttttc cctccttctc cttcctcccc agctcgccca tgcattgcact cttttctggc 420
tagcaagcat ggacgagagg ccgtgatgga tggatc 456

<210> 56980
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-F6

<400> 56980

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ngtttggcgt ggcttcatca caggtgcggc cgtggcattc ttcattaggaa cattagttcc 120
aagtgcata tgccttgatga tgactatgag cctaagattt ctgattttgg cttggcaagg 180
cttatgaatc ccatcgacac ccacctgagc acattttgtga atggtgagtt tgggtgactta 240
gggtatgtag ctccggagta tacacgcact cttgtggcca ctccaaaagg ggatgtgtat 300
agctttggag ttgtcttact tgaacttggt actcgtgaag agccacaca tgtgtcaaat 360
gcgcaaaaaa acttcaaagg gaggtttggtg gattggat 398

<210> 56981
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-F7

<400> 56981

gaattcccgg gtcgaccgca ctcatcctcc cactccttca acctctctta ctcatattct 60
ttccctatcc catatgatta acttgacggt tatctctaag tgagcagacg acattcctta 120
tttttcacat attccatatt atatatcaat attatcttaa tcatagcctt ctacacatac 180
acttctacta cttttcatca accaaaaaat tacaaaaatg agtgtctaca atataaatga 240
ccctacaatc ttttcgaaat atataaccaa tatcaatttc tttctactga ttttaattat 300
atatacncaa cttttttttc taatcaaag tcaaaaataa tcttaacttt gaaacctcta 360
cttacttcac tttattatac ttctccata ttattttacc aatttaaatt tattatatca 420

aaccttcctt atttccattt taca

444

<210> 56982
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-034-Q1-K1-F9

<400> 56982

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cctatcaacg tgttcttgta cgggagggcg tgttttagga tnnctacta caaccatgtc 120
aagctgcatg cgctcaatgc taatgaggca cagaagaaag ccacacatgc ttattattat 180
gccgggtcgc tcttgcatga gcgcgatgga cacatttatc gcaagatcga caatcaagcc 240
tagagggcca gatctgatcc tggcgccccc atattgggca tctgatgcaa ggtgcaaaga 300
ctggtgtttg gtctgcggtt gctttcaagg agttttttgc cggttgcttg cacatcttta 360
actcttggtc ttaag 375

<210> 56983
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-G11

<400> 56983

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tctaacaaaa aaaaaaaaaa aaaaaaagaa aggttctaac caaaaggggg tcggggccac 120
acatcacact tcctcttaca tacaacatat tacaactcaa tttacgtcct tcttaaataa 180
aatcaacttc ccctactttt ccatcgatca tactcataaa ccccttaaca tccccatttt 240
aatcaacttc ct 252

<210> 56984
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-G2

<400> 56984

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tcctcccctg tgagctttcc aatcactcct tctcctatgg caccatgtgc ctcaccaagt 180
tcacttcttc ttatgctcat agtactagga tgggtgggtg tggtagacgt tgctcaattt 240
atctggtttg ggtagtgatg gatgatatga tcttcgtcta ttgagctgt taagactgat 300
ttacattttt ccacgtcacg ttttggttga tgggtgcattg ttccaaatca cgtttttaat 360
actgcattac tggttcttac atttaacaag ttttattcct tgaatttttc aaactttaat 420
tctttttttt catttttatt t 441

<210> 56985

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-G3

<400> 56985

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ctctggcact gagagccaca tgagtagctc tttttgcaga tggatggcgg tggaagcgac 120
tagtccaaag agtcttgagg atttacgagc tagccttgta ggttgcaaaa tatgcacgta 180
tactgccgat gaccaatgat aggatcgatc ctgcgccctt agttgataag tggccatgat 240
ctttgcatgg atgatcagta tctgtcacgg ttttatcttt gttgccagtc tgtataaacac 300
acatatagat tggtgtgaca tttatttgct tgctgtttcc acaatgtact gtcttagact 360
tgtagccata tgctagttta ttgcttcaag agcttgattt caatta 406

<210> 56986

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H1

<400> 56986

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 ccccttcggt tgcgaatatc tattcactcc ggtcgtgccc tctggagtgt gggcgcggtta 120
 cagccgattt tgttacatat ctaggccatt cagttgtaaa actgccatct taagtgtaaa 180
 tacgtgttta ccaaagggtg tttttgtcca tttcacctta tgagcttctc tataacacac 240
 agttaacact taacagctac tccacatttg cagtctcctt 280

<210> 56987
 <211> 71
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H12

<400> 56987

tataatatcc atacttactt accctttcat gcaacttctt atctcttata tattgtcacc 60
 taaattcaat t 71

<210> 56988
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H2

<400> 56988

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 tttattttcc cccctattta attttctct ccccttttta cacaaccttt actcttaaaa 240
 ccccttattt tcccaaattt atatcctttt ataacatct cctttttccc catttcgttt 300
 tatccaaaaa acccccacac ttttccctct tcaaaaattt tccacaccct atttccaatt 360
 ttacaccccc cctatcactt ctttttaate cgggttattt tttttttctc ccactatttc 420
 cccctttact tttcatttcc ctattacccc ccccttttca tattttctcc ttc 473

<210> 56989
 <211> 426
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H6

<400> 56989

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tggtacgagt agtgccatgg cacacagggc tgttgatgct gtaatgggtc tccggactgt 180
tcggcatgag attgttatct cagaagctgc tgctgctgcc cctcctgctc cagtgatgaa 240
cgctaagtct tgcagcatcc attctaaggc tttccaagat tgtcttaaca actatggcag 300
tgagatcagc aagtgccagt tctaccttga catgttgaac gagtgccgcc gtgggtgttgt 360
ctgcctgagc ttttgctcca attgggatta ttcattgatt ctcttttcac tcccatgtat 420
ctcatt 426

<210> 56990

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-034-Q1-K1-H7

<400> 56990

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agagatggct gcctcggaga agctaaagtt agtgcgggcgt cggaatgna cattcttcta 120
acgaagtgtt cacttggccc gtcattgggat ccaacagtaa ttgaaagttt tatgggctaa 180
aaaacagcgt ctacatctgg tgcccctacc tgtctttgtg attttttatg acttttatgt 240
tcttgatcgc tgaaccgcag tgaacaacgg ttgttgcaag ttccagggat atctntggaa 300
gtggtaaaca aatgcgtctt atttctatgt aatattagac cccgtgcgtg tgtgggtttcg 360
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<210> 56991

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-034-Q1-K1-H9

<400> 56991

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aacaaatgcc atattgccaa gatcagcaag ggaaggatca accatctacc caccatattc 120
cttgaagacc tactggggct tctctcactt tgaaaaccca gccagggcg ctgtgggatc 180
atggtagatt aatgcgccgc gcacgccga tatcatgcc tgaacttagt tgaggccaat 240
ctgtgctgct gaaatcaaac acttatgaac gtttgttctg aacatcactg gaactctcca 300
tttgcttgta tgacatgctt atggttcagc gagtttaatt ccaacgtttg gtcaca 356

<210> 56992

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-A10

<400> 56992

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gaactattaa ttcatcatgt cgagcacagc tggccaagtc atcaaagca aagctgcggt 120
ttcatgggag gcagggaagc cacttgatga tgaagaagta gaggttgccg caccacaagc 180
tggtgaagtg cgtttgaaga tcctctacac ctctctttgc cacactgatg tttacttctg 240
ggaagctaag ggccaaactc cattgtttcc tcgtatattt ggtcatgaag ctggaaggat 300
tgtggagagc gtaagtgagg gtgtgactca tctgaaacca ggggaccatg ccctccctgt 360
gtttaaccgg gagtgtgggg actg 384

<210> 56993

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-A7

<400> 56993

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tcggttcggc gatgtcgggg cgcgtcagag gctgcatagg agctgggcaa gggcggcgcc 120
aagcgccacc gcaaggtgct gcgcgacaac atccagggca tcacgaagcc ggcgatccgt 180

aggctggcca ggaagggcgg cgtcaagcgc atttctgggc tcatctacga ggagaccgc 240
ggcgtgctca agatcttctt cgagaacgtc atccgcgacg ccgtcaccta caccgagcac 300
gctcgccgca agaccgtcac cgtcatggat gtcgtctacg cgctcaagcg ccagggccgc 360
acgc 364

<210> 56994

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B10

<400> 56994

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caagagctca aatcggatgg aatcttataa agaaagaaag atcatattca tggcgatggc 120
aagcctggct cgacggaagg gttacgccgt cgtcttgctg tcgaggtcga cgttttgtct 180
gacaagctgg aggggattcg cgtccggatc tgacgaaaac gacgtcgtcg tcatcggcgg 240
cggccccggc ggctacgtgg ccgccatcaa agccaggcag ctcggtctga aaaccacttg 300
catcgaaaag cgtggcactt ctcgcggtac ctggctaaac ggtcgatgca tccttttcaa 360
ggcacttctg cattcttcca cat 383

<210> 56995

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B11

<400> 56995

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cgagtctggt tcctgagggt tgcttctttc tacggcagca acgtcacaat cagaaacaac 120
aatggccaac actaactcgg aagatgatcc ctctctggat ctcatgactg agctccttcg 180
acgactcaag cgctctctca aacctgacaa gcgtcttatt ctcatggcc cacctggatc 240
tggaaggc acccagacac caagcataat agatgagtac tgattatgcc actgagctac 300
tggtgatatg tgaagagcag ctgtagcagc taagaccctt cttggtgtca aggctaaaga 360

acctatggat aagggagaac tcggtgctga tgac

394

<210> 56996

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B2

<400> 56996

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ccaagatgta ccagggcgcg ggtgaagaca tgggcgtcgc tggctgcatg gacgaggacg 120
ccccgctgg cagcggcggc cctggcccca agatcgagga ggtggactaa gcggtttgtt 180
gtcagtcttg agcgtgctgc agttgctggc tggcccagtc gctgccgcga gttatcgctg 240
tcggtcggtg cgggtgtgtcc gcttaaactt tatttggtggg gggctgtgac ttttgagggtg 300
tttatttttt ttggaccttt ggtatattct ttattatttc atgttttttt cgtgttcttg 360
ttttttttta ttgtttatat ttttttttga ttttttattt ttttgttttt tcttatttat 420
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<210> 56997

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-B4

<400> 56997

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ggatgggggc agatccaggc aggtacaaga cttgtattac cagcgtgcgc ggtgtaaagc 120
gtcatactca gacgtgagct gaagttgagt gcaaaagata aaaaagagtt tgttgttagt 180
cctgtccctg cgttactgca gattcaaagt tctgggtcac tctaatttta tcttgtttcg 240
ttcaattttg gaggccgtta gcattatgac tcctgtgaac at 282

<210> 56998

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C1

<400> 56998

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tgctggacgg gctggacctg aacgcccgcg tggccgacta ctgcctgcac cgctgatga 120
cgcagtcggg cgtggcggag cagatcctgg acctgggggt actgggctac cgcgaccgg 180
agctggccgc gtccaagaag ccggcgccct cgttcaaggc cgacgtgtac gccttcggcg 240
tcgcgtgct ggagctcctg acgggccggg gcgccgggga ctggtgttcg gggcccagg 300
gcgccttcgt cttttatctt att 323

<210> 56999

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C7

<400> 56999

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tactgatgcc acatctattg gctcattgcc atgaattcat gcatctatac atccatatat 120
aacaccttat acacaatttg tatcgaaaag ctatatgttt caccatatgc tgcactacta 180
gcgtattccc taatttttac catcaatgat tcatcatact gtaacttgta ctaaaccttg 240
aaccaactat aggcataaca ccaatcgat ctccaattca gctcttgatg ccactataca 300
agacgtttat caaaaagaat ctcttcaagg atcacttgaa gagcaaattg gagatcctat 360
attatgtact tt 372

<210> 57000

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-C8

<400> 57000

ttcccggtgc gaccgcacgc gtacgccaag agttgatgca ggaaaagagg gcgaattagc 60
aactgcttca aggccagggg gtcgatgttt ctttttagaa tgacaggggt gctactaatg 120

gcaaaccatg gtcacagaaa caggcaacgt gcatgtaatg cactccttgc ttatgtgtct 180
 ttgtatgcct ttaaattcctt tttcttttat ttcttacatt ttatttccac tttctatatt 240
 ttttttctg ttcttcattt ttaactaatt atatttttta tatttttatt ctttttccct 300
 tttattattt attattttac tttattatct tttcttttat ttttttttta ttattctttt 360
 tttttttata tact 374

<210> 57001
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D1

<400> 57001

ttcccggtc gaccactcg tcctcccaag cgtccgatgc atgcttctac cattttcaca 60
 tcatacaaac aaaacaaatt aaagggcctt atttaaaaaa tcatagggcc acaaaataaa 120
 cataaaaaaca cctattataa caaaccttat actaaacata tgcactaaaa cattcttttc 180
 gcataccaca tacaacattc atactttcca ttctcaaatt atccatctaa tattaataac 240
 ttactattat tta 253

<210> 57002
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D12

<400> 57002

taccgtaccg gaattgccgg gtgcactcat gcgtcgagcg catacgtcca cgcgttcgga 60
 gtcttccaaa atcttccaag gtgacgagct gctctttcct accggtggac aaggcacagc 120
 tgatcgagga cgtgaggcat gctctatata ccgacaagat ctacagttac gcacagggca 180
 tgaacatcat caaggccaag atctaagata caggattggg cctgaaccct agggagctag 240
 cgaggatctt gatggcaggg tgcattatac g 271

<210> 57003
 <211> 308

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D4

<400> 57003

cgtcggaat tcccgggtcg accgcacgcg tccgcaacat caggggaagag gccagatact 60
 agacactgtt gctgaaatac aggagcgaca tgattcggga agggatctag agaggaagct 120
 tctggagttg caacagatat tcatggacat ggcagttctt gttgaggcac acggagacat 180
 gatcaacaac atcgagaccc atgtctcgaa cgccaccaac cacatacagc aaggtgtgag 240
 cgcgctccaa aacgcgaaga aactgcagag gaattcgagg aagtggattt tctacgtcct 300
 cattatac 308

<210> 57004
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-D9

<400> 57004

ggattgccg gtcgactcca cgcgtcggcg gacgcgtggg cggacgcggg gtcggaacca 60
 ccatccaatg agacgggggg ccgtattaga tgagggggcg gaccacatgg agaaagcaga 120
 caccactaac cctaatacca gactttgctt tctcgcttcc c 161

<210> 57005
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E10

<400> 57005

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 ccatcgccac caggtggctc catggctccc ctttcgcca cgaacacgcc gctgtctcga 120
 ccccttctcc tgctgcttca gcaagatggc ggtgattgag ataaaaacag cacctgctga 180
 cttacgctta cctacaacaa accaaacaag gcattgtatt actcgctatg tcgagtacca 240
 caggtgtttg aatgccaaag gggatgatgc tggtgtttgc gaaaaatttg ccaagtacta 300

caggctccttt tgccctggag aatgggttga gaaatggaac gagcttaggg agaacgggac 360
gtttccagga cctttctgaa tgta 384

<210> 57006
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E2

<400> 57006

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tgcggggttg tcagtaagcc atggttcatt taagctgctg ctgtacctgg gtatctgcgt 120
cgtcgctcgtc taataaacat ctgtggtttg tgtgtcatga atcgtgggtg tggcttcggt 180
ggtttaatgg acctgttggtg tcctctgtgt tgtacccaaa actcttctgc agcagtatgg 240
cttgaatcct tgtgaagttt gatgtttgaa cttaaaaa 278

<210> 57007
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-E9

<400> 57007

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tcattgaata cgggggcctg atccaatacc atggccacat cgatctcgcc accaccgcac 120
ttaatggctc tcgacataac aatatcttaa gctcttataa ccttctacga cttagactat 180
caaacagggc tatcttacgc caactacatg atccaattgg ctggttgcca aacattaaac 240
gcctaaaccg atctaacaca ggcgattccg aaaggactcc agaaaacact tgtactctac 300
cacacttaa 309

<210> 57008
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F11

<400> 57008

ggaatgggcc gggtcgactc cacgcgtcgg cccacgcgtc cgacactccc ctctcaagtg 60
tttgtggata agattgagta gaatgggttc caggagagcg ggtttgattg ctatgggttg 120
tgttgatgga actcttacag cttccaggaa ggtggtcaca ccggagatgt tgacattcat 180
gcaagaactg ctgaagggtt taactgttgg agctgatggg ggttctgacc ctatgaagat 240
atcagagcaa cttgacatca cagctaccaa tgactatgat tatgcatttt ctgagaatgg 300
tcttgcggct cacaaggtaa gaaagctcat tggaactcaa agcttgaaat catttcttg 359

<210> 57009

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-F12

<400> 57009

accgtaccgg aatggccggg tcgaccacg cgtaggccca cgcgtacgca cacaacacat 60
ccaatgaaac actccaacgg ctgggggtgt gcttttagcag gtggcaagtg ccgataagca 120
tcacccgcca aggcatacgg accaggccaa gactagctgc atcaatggag tacgctggcc 180
tgcacggaac aagccggaac catgacataa atgcgagacg ttacacggag acgagaaaga 240
gcttcgcaga gccgggagaac ttgtacgtgc attgtgacga gcttaagcaa cttcgactaa 300
ccatggagat 310

<210> 57010

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-035-Q1-K1-G10

<400> 57010

cggaattccc ggggaaatag acaatggggc tacggcagtc gaacactggg cattgtaaga 60
aacaacacca cagggggcgg gggactttga caagggcgaa ccaacgtctt ggctaacagg 120
cataagcatc acggacatgc caagactaga t 151

<210> 57011
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-G11

 <400> 57011

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 caccttctgg gggggcatat gccatggggg cgtacaacta tgtagtcaga actatggacg 120
 aggaagcagt cagacgtgat gcgcttgatg catagcgtgc tccactggta gtacaggcag 180
 cacatcgtag atagtgtccc tcaccaggcc tacccttgac atcatg 226

<210> 57012
 <211> 73
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-G2

 <400> 57012

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 acctatctca ttc 73

<210> 57013
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-G3

 <400> 57013

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 ttgagtcacg agtttgggtg tggtttggat atgccctctg atccaagaaa agaactcctg 120
 agccctcacc tggaccttga aaggggggct agggggggcaa ggagaaaccg aaaaaagccg 180
 aaaaagggttg caataagttg ctcagcagct gcatgttacc ttcggttcag cattcacagt 240
 ggaaggcaga gctaggg 257

<210> 57014
 <211> 484

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-G4

 <400> 57014

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 gtagtggttt tgggtgtagtt cggatttagc actatttaat taagattcgg gtccttacat 120
 caacaatgca ttcattgtggt ctacacagtgg cacttttatt gaagtgttcg tagctttcaa 180
 agttcttatc tctttttaca tatatgatca cttactttta tagcactatt catagcatta 240
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 attttttttt tttatttttt ttcttctttt ttttttattt atcttatagt tttttatatg 360
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 tttt 484

<210> 57015
 <211> 183
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-G7

 <400> 57015

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 tcactcctaa gactatcata atactacgcg caaaatctaa aagtacgagg accattcata 120
 tctcacctca taacttacat ctcaactcag catccatgac aacaagtcac aattttactc 180
 gta 183

<210> 57016
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-035-Q1-K1-H10

 <400> 57016

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agtgtaaatt caaagcacat gaggagggtt catttcgacc ggggcacgat actgatcgga 120
atcaacggca tcagaaggat cggcaggctc gatgccagag ccatcgtcca tagcgaggat 180
gttctgctcc tgttcggcac taccaatcac ataacgacgg tcatcattta ct 232

<210> 57017
<211> 69
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-035-Q1-K1-H3
<400> 57017

accgttcttg aattcccgcg tcgaccact catacagtat tgtatcaaat ctcatcatat 60
taatattttt 69

<210> 57018
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-035-Q1-K1-H7
<400> 57018

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tagttggttc catgtatgta tggagagggt taaatgtaat tctttccaat ggtccaaggc 120
ggatgctgct tccgaattag caccatccga ttcttttggga aaagatgtat actattacag 180
tgaaaagtga aaaaaagaga gagtttagctc cttataaagc tttctgagct ctacacgtac 240
tacctccgtt ctccgaataa aaaatttttt tattttaaaaa aggggcggcc gtttttaaagg 300
atccaagctt acttacgcgt gcttgctact tctaaccttt ttatagggtc acctaaattt 360
aaattatctg gccgtctttt tacaattttt 390

<210> 57019
<211> 270
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-035-Q1-K1-H8
<400> 57019

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 cgtcagccct cagctatcga cactacagtg ttattttagg ccccggtgtg gggagagtcc 120
 agttcctacg tgacgacgac caccctcagt tcggcgtaga tgaaacacaa actagcagaa 180
 tgcagattgt taggattttt ttttcaggct gcgggggtga gccattcatt gtcatggtga 240
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<210> 57020

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A2

<400> 57020

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 cctggttaata tccattgtta ttagccagat taccttcctt gaacttggtg ctgtaatgac 120
 ttctccagaa gccaaatctg ttctgagggt gcggaagact tctgaggaag gcaccaagga 180
 tgtcaagcag gagagttgtc tcgagccaca cttgagagca ccattgcaga agggaggctt 240
 ccaatcatac atcatctggc tggttcttcc ggtggctctg ctcttgcttc tctgtgttgg 300
 gacatatgga tgggtatgaa atctatcctg gtgccgttca aggcttgtca ttttgctcac 360
 at 362

<210> 57021

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A5

<400> 57021

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 ctcaggcgga ggtgtcatcc cagacatgct caagtccttg atcaacaagt cctccaagga 120
 gtgaagacta ggggatgtgc atctttagtt taaactagac ttctgtgcmc tctcggcgga 180
 gtccttgtca tctgttaggt tttagttgag ctgtcagggt ggagctcttc tgtgtaacgc 240
 ttgcctggta ctgcttcata agttatttgg ttattgtgtt tgtgttgagt tgttaacttc 300

aggggtgcaa acctggatgc ttatttagtt atgtgactac tgctattcg

349

<210> 57022

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-A6

<400> 57022

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ttaaactctag tttaaaagca agttttatgc gtaaaactgg tggaaagaag agcccatgga 180

aatagagact acaaaggcag ggtgctggag tcactagtca gcacagttac taccctgaga 240

aaaccatgaa ttcacaaaaa ggagtttagat taaaagctta gcattggtgt gttctttgtt 300

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<210> 57023

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-C7

<400> 57023

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aacctctgcg gaggcgcgcg ggccgctggt gacgaaccaa gaagagccga ggaggcagag 120

ccgcggacgg caaagggcag cggctgggaa aaccggaag c 161

<210> 57024

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-D2

<400> 57024

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gtgtgtcgag acgaggcgag atgcgatgag gtctatcttt tatatatagc ctgtagcgcc 120

cttcaaacac ttcatccccga agtcaccgag ctgagctcca aagaatctag cagctaggag 180
caggccgtgt atacgccatc caccacggca acatgtgctc cggctcctgg tcctggagca 240
gcagcagcag caagaagcgc ccgtctcttg ttgtcgtcaa cctcaagcgg cagcagctgc 300
agaagacgcc gccgccgacg ccgcctcgtg cctcagttgc tatcaggagg aagaggctga 360
ggctgaggag gtggcaagcc g 381

<210> 57025
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-D3

<400> 57025

aaaagacata aaacaacaaa aaaaaaaaaac ctaattacaa aacaagacaa aaaacaaaaa 60
gaagcaagct ttaaaagata aacgagcaca gccctaaaaa cacaaaaggc cggaagccac 120
agagctcccc accaaacaac ctagcacct 149

<210> 57026
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-D7

<400> 57026

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tgctgctggt tttatagcat cgcattgtac catctgtctg gtgaggagac tacccttact 120
acaagattgc tgtcctcgac aagctcgatt actgctccag cctaaagaac ctcaaccctt 180
cacgggcttc accaaatttg aagtttgtca agggtgacat tgcaagtgtg gatctgggtga 240
accaccttct gggtcacagag tcgattgaca ccatcatgca ctttgctgct cagactcatg 300
tatatatattc aattggcaat tcatt 325

<210> 57027
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E3

<400> 57027

gtccggtaga aggggaactat tgaccaacca atgctggctg tggaactggg caggcatggc 60
gccagagagc tttgcagctc catctggctg ctgttttaga gcatctgact agctgttagc 120
gctttcccta gtttctctct ctccatctct atctataaac ttgttccccg ttacattttc 180
cttatatccc gaagaccctg atgccagagt atagatacac caaacacctg gtgtctgaca 240
atgtaacttc tcgtcatacc ccttacaag tgactattac agctcttttc 290

<210> 57028

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E4

<400> 57028

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aattcttcga aaatgttcag acttttagaca aaaagtaact ctaatatagc agcttcacac 120
acgcacaggg gacaactccg aaactgagtg ggcagaagac ttaacacggt cgaaaagcta 180
aagccttttg gcgagcatca accggtgctg gagatggagc tgtagcagca gcaccaggac 240
cagggcgggg gcctccttgt ccaccagcag gcctatcctc cctgcgcctg aagcgctccg 300
gcggcttgcg gtccctgcgc ttctcacggg atcgga 336

<210> 57029

<211> 196

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-036-Q1-K1-E6

<400> 57029

tcccgtcga cccactcgtc cgatcgctg cgtcggcatg agaaattttg ttgcatcagc 60
ttgtgtcggg tcgnatagtg cggaagctct ttttcacgtt gcctgtgggtg tatcttaatt 120
tgcgccgagg ccttatgagt gactagtgtt tcaactgtaa ctggattgca cattttcgtc 180

gcatggaatg tactat

196

<210> 57030
<211> 182
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-E8

<400> 57030

cccggtcga cccactcgtc cggtagaaga ttccatcatt gcataactcg actagtgtta 60
gtagtatata ctcttgggca agattgtttt tgtagccatg actcatagta tgtagcagta 120
tggtgatggt tggattaatt cagctttttt gctcttgctt ggtgttcttc aaaaaattta 180
at 182

<210> 57031
<211> 290
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-036-Q1-K1-F3

<400> 57031

tcgtccgccc acgcgtccgc ccacgcgtcc ggatgccttt tttcttgcaa cgactactgg 60
tagtagacct acttggtgca gttgcgagcg gcatgtaaag ctgaagcatg tccagtccat 120
ttttgtttga tgtaaaactt ttatcggcta gaattttgac cgggcttaga agaggcagag 180
tatgaggcgt ttggatgtca gttcctttcc cagggtttaa ttncgtctag aggtaagtcc 240
ctatgttgga gctctaattg ttatctggtt ggattccagg atttaaattg 290

<210> 57032
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-F5

<400> 57032

ccaacgcgcc cgctaaaatc gcaagcggcc gctctaaagg acccaagcta acttacgcgg 60
gcatccaacg taatacctct acaatagggc cccctaaatt aaatcaacg 109

<210> 57033
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-F7

<400> 57033

aaaacccggg tgcacccact cgtccgcacg agccctaagc gccacagcca c 51

<210> 57034
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-F9

<400> 57034

cggacccgtg cactcacacg aggagaagat ccatgagaca gacgcaacac caggcaaggg 60

accgagaacc ccgaccaaca gagggcgacg cgccggcacc tgcaccgag cgcgcgtaac 120

cagcacaaaa cagcacggct gactgtcgca aggaacgtgc aagacacaca ctacgaccgg 180

gcaataagca tggaactatt aagagtggcg gccaaaggaga acagaacgag ctccgctgcc 240

cgatcatgcc aacatgaaca ttaatgaatg tgcgag 276

<210> 57035
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-036-Q1-K1-G4

<400> 57035

cccgacccac gcgtctcgct gtttctctgt tggttctgag agatgtgtta gttcacggat 60

atggaggagc ggtggtggat tggatttgta aagagggctg aaagaatggt ccctctgggt 120

gggcgtgtca ccaaagagtg gccctagagg caaaccttac gtttgctcgt tgcccttggt 180

gtgtacccag atgtgtatcg atgacatagg ctggctgctg tatcatcatc agggttgacg 240

ctgaacaaga gatattcaag ca 262

<210> 57036
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-036-Q1-K1-G7

 <400> 57036

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 cctataccat atatacagac gctacggcag aagactttga tgatgctcag cgcgccatga 120
 ttacggatac acatcgatgg aagcaaata ccaacatata tgatcaaggc tctaacgtcg 180
 agcagcgtca acccttgata ctctggccat ggtgtgggcc aacctaacaa cggctg 236

<210> 57037
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-A10

 <400> 57037

 ccaacgcgtc cgnaaaaann nnanntatgg taaagaaaaa aaaaaanaaa ataaaaggga 60
 aggggtt 66

<210> 57038
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-037-Q1-K1-A5

 <400> 57038

 ccgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaac attataaaaa 60
 aaaggaggag aactataaaa aagggggggac gggcgtaact tttctatagc ctccccttct 120
 ttcatttggc tttccctctt tttatatcct tgctactggt taaacacttt caccacctta 180
 attattcttt 190

<210> 57039
 <211> 374
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-B6

<400> 57039

tcttggttta cccttattta tagatcacga cgcacaaact gtatgggttg gtaacatctt 60

gctgtggggc ctttgtcggt gcatccttta tacaatcgac aatatgataa caagagttat 120

cttgaaagta gtcttcattt acttttgttt tctccccatt gtgttgcttt gtaattaaac 180

tctagccttt tcgtttagtt atttgaaatt gtgtcgctta gtagaacaac tgttgtgaaa 240

agaaaatgtc agatagccac cttagttaaa aaaaaaaaaa aaaaaaaggg cgggcgtttt 300

ataggttcca agcttactta cgcgtccatt cgacgtcata tctcttttat agtggcacct 360

aaattcaatt tact 374

<210> 57040

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-C1

<400> 57040

ctctaaaaaa aaaaataaat tccatgaaaa aaaaaaaaaa aaaaaaaaac gcaaaaaatg 60

gggagggggc tacctactct agagggtcga catcttacgt acctcgta ca tgctacacta 120

taactttttt atagtgaac ctaaataaaa tt 152

<210> 57041

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-E12

<400> 57041

cccacgcgtc cgcgctcgcc gtcgatcggt tagtttctct cgtgcacgtg catgcgtggg 60

cgactgtctc aggccggcgg tgcgccggca ccgctcgcat cgtttgcttt tccttggacc 120

agcagtcttc accgtcaggc tgagctgctt gtaaccgtga atccggaccc gtttgcttct 180

gtaagatttg tgcactctgc tgagtgtaaa gcaaaaaaac taaaaagaaa tcaaaatgag 240

aagctgaagg aaaatattca aggatctgaa ggaagaaaaa aaacaagctc cgtgaaaaaa 300
 aaatgggggc ggccggtcta aaagaaccaa gtttaccac gcgtccatg 349

<210> 57042
 <211> 296
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-037-Q1-K1-E6

<400> 57042

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 ggggtgtttt tcatctcatg catagtgtg taaattgcac ccttgctgtg aaaatttata 120
 atccttgtcg tctgtgttac cttacacttc agtttaggat gtgctgacaa tcagtgtgct 180
 tattatgtcc aaataagctc tctttttttt aacgtttgat ttttagtcnn aaaaaaaaaa 240
 aaaaaaaaaa ataaaaattt aaaaaaaata aaaaaaaaaa aaaaaaaatt taaaaa 296

<210> 57043
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-G3

<400> 57043

caggtaccgg cccggatttc ccgggtcgac cgacgcgtcc ggccgcctga tggccctcca 60
 gctcagcagc agccacagca gccaatcag aactgaagtc ctgtcaagat gttgggtatt 120
 ggtactgtc taactgtcgc gcaggagaat gcaacccccg tgggtcacca gctttcgtaa 180
 tttcttaatt tgtgggtaac agtaaaaact ttgttgtatt gcttatcaac gtttgaagaa 240
 aaaccgtgag atataccgga tgtatccagc ttctggattt tgtggtacct gctgagtttc 300
 atc 303

<210> 57044
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-037-Q1-K1-H2

<400> 57044

cccacgcgtt cgccccacgcg tccgcccacg cgtccgcccc cgcgcccggt tctagattcc 60
gccgcccgcg aagaccttat ttttgaagct cgtatgtcca tatggtttgc agaacaatgga 120
cgatgagacg gcttgacctt atattcccgc gtcctattac ttcataagctt attcgggatg 180
ttctcagaca tgttattccc atattgacga tgcttaagat ttgtactgta ttgtttcagt 240
gacagttacg caaaacgatt atgatctaaa 270

<210> 57045

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-A1

<400> 57045

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agtatctaac ataaaaatat tcacatactg gcatggggat tgggtcaaaaa gagcttcctc 120
attagcatct ctgttggatg atgactttgt ggatccatct aaagagctga acctgcaaaa 180
tatgggcaaa tcgagatctg gtgctctgac aacttcata gaccaagtcg cagttatcga 240
attgctgggt ccttcagtat ttagagctgt agtgtcattg catcctgctg gatctactga 300
tcctgatgca gtggcattct tttctccac tgagggaaga agctatcttc atgcaagggg 360
cacgtcggta catcacgtgt ttaaacattg taaggaacat g 401

<210> 57046

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-038-Q1-K1-B11

<400> 57046

accacgcgt gcgctcgtag ggtttggtgt gttcacctca cctctcgcg cgacggcgaa 60
gccttctctt ctgttcgctg ggctccgctc cgctcggtgt ttcaaccatg atgtcgcggt 120
cgtacaccaa cctgctcgac ctcgcgagg gcaacttcgc ggcgctgggc ccggccgccc 180
gcgccggcgg cggcggggcg cagaagcagg ggtcgttcgg gctgaggcgg atgtcgcggg 240

tgatgacagt gccggggacg ctctctgagc tcgacggcga agacgagtcg gagccggcgg 300
ccaccagcag cgctcgtcttc gacgcgccct cgttcgt 337

<210> 57047
<211> 476
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-038-Q1-K1-B12

<400> 57047

ggaanncccg ggctcgaccc acgccgtccg ctcgaaacctc gatatccctc atnccatgcc 60
tgtcgtctgg ctgtctgccg gtcagccgcc gcttcgatgt gcctccgcgc tgaatatncc 120
cttggcccca taagggcctg atccttgaaa ggcctcgcca ctttgatccc ggcggcggtc 180
ggaggggagt ggcgatgtcc gaagtcggac gacacacatc ctactcgagc gaggacgcac 240
tgccggaggg ccccgagtcc gaccttttcg tatactactg caagcactgc gcctcacatg 300
tcctcatcac cgatacccaa ttgcagaaaa tgcccaagcg aaagactgac agagcacatg 360
ttttagacaa ggctaagcat ctttcaaggc taaatgtaa ggaggcagga aaagtaatgt 420
tgaaacgtgg tgaaggaaag cttgaaaagc agtttcgcat gagctgtgtg ggatgt 476

<210> 57048
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-A11

<400> 57048

tccggtctct gatttcccg gtcgaccac tcgtcctctt actctttttc ttactcgtat 60
acgaggttct gctttatgga cccgtccttc catctggggg cggcttctat gatgctaggg 120
ccagttcttt atctgcactg tgtcctccat ccttgtgtca caacatttta catcgcttcc 180
aataatatca ctccctcatg tttctatfff tcaaaaattc ttattctaata aatttatgtc 240
ttaattattg gtttcttttt ca 262

<210> 57049

<211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-A2

 <400> 57049

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 ttaaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaatttataa aagtagggag acaaaaaaaaaa 120
 caaaaaaaaaac gggccccccc ctctaaataa tccaacctta ctaacccttc cattcaacat 180
 attaccttct ctatatcttc accaaaattc aattcactac ccctcttttt acaacatctt 240
 aactgtataa accctgtctt acccaaactt aatccccctt aataacaacc ccctttcacc 300
 agcttgctta ttaacaaata gccccacacc 330

<210> 57050
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-039-Q1-K1-A5

 <400> 57050

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 ctcttctctg catgctctc ctccaccatc cgaaccgct atgttctggc aggggcatcg 120
 gttctcaac ttctctctg cctgcatggt gttegccttc gtcattctt ggctcttcca 180
 cttcaacgtc cccggctaac atgttctttg gcgcacatac atggccccg aataaaaaaaaa 240
 aactccaaaa aagccattac tccggacgcc gggtcggtaa gtagcggat ctggaagaac 300
 aggctggtg gtgctgggtt ggttgaagta aaagctcgac atggggccgg ttgactttta 360
 tactgtcatt tt 372

<210> 57051
 <211> 507
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-A9

 <400> 57051

cggaattccc gggtcgaccc actcgtccga tccccattct cttacgatga tcaatctttt 60
 tcgttctcaa aatctctcga ccagaatgcg gatagtttat ctcattgggct cgccagccat 120
 catgaactac tggagagaat gtcttgtaac cgtcttatct gatgatgttt tcattacttc 180
 tctgtttaat ctttatatta actttttttt tttttataaa tattattaat tatatatattt 240
 ttttatctct tatttttaaat ttctttttct tatttttggt ttatatattt ttaaacttaa 300
 ttttttttat atattttatt taatattttc tctatttatt taatatgttg gttttaattt 360
 aatttatttt atttttttat tttatttcta ttataaatta tattattttt tttatctctc 420
 attttttatt tataatatatt ataatttttt ttttttattt ttattttaat atatatatta 480
 ttatatatta ttatttttta tattttt 507

<210> 57052
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-B1

 <400> 57052

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 ttcttctgct ttgttgccct ggcctttgga tgaagggtct atatcatggt gtatcaactt 120
 aagcagtgac aatcttctaa agaatgtcga agaggactac ttcacagctc tgcaaagtgc 180
 acctgcccc a gtataatgaa gaaactgata aatatctaaa agggaacatg caaatcaagg 240
 tgtaaattct aacagtgcc a gaaatctggc agttttgggt gaggagattc tacctgccat 300
 ttttcggttt gtacatatga gcctgtaaca tttgtgggtt tttttatatg ggccaggata 360
 gaacttctcc attgtttggt caaggcaagc ataattatcg cctgcatggt gtattttgta 420
 taaatgttca tcctttaact aaaactcata aatgaagatt gatt 464

<210> 57053
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-039-Q1-K1-B11

 <400> 57053

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 gtagtcattt agctagctag ctgccattgt tgcgagagta gctaagctag gctgaggcga 120
 cgtgggaaga ttcgctcgct ggtccggctc atctggagag cgaccgccat catgctcatg 180
 ccggccagct cgtggctctt aaagtttttt aaatcatgtc tctaagttcg tggactgcat 240
 ttcacacttt gttttgcccc caagttgttg attaattcgc cgaggccacc aatggcaggt 300
 gcccatgttg ctagttaaaa aaaaaataa ggtctgccgc gctgatggat ccaagctt 358

<210> 57054

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-B2

<400> 57054

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 ggttggccta ggaggggaagt tcgagtcagc tatttttgtt gttagtgttg gcgaatgtcc 120
 tgttatctca aaatacaaag cttcttttct cacctaattc cctaaaatgg aaatgtttga 180
 ctcatTTTTT aattcttctt tgaagctgat tgtggactta tcctttctat gtagatatat 240
 tctttccttt ttatcatttt ctttttctta tttttttta actaatttaa taattttttt 300
 tttcattttt tatcatctat tttttattat ttattttatt tgtgctttca tttttcttaa 360
 tcttaaatat ttaaatttct ttatatttta tcttattata tttctcttat tttctatttt 420
 attttatatt ctttatatat tctctattta tttatcatta attttttttt attttt 476

<210> 57055

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-B5

<400> 57055

gaattcccg ttcgaccac tcctcctaaa aaaaaaaaaa aatatcaaaa atttataat 59

<210> 57056

<211> 326

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-C10

<400> 57056

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 ggcggccacc ggcggaccat cgcgtccggc tgctccggct tgagcgatgc ggtcgttggc 120
 cgtcttcacg tacacccgac gcacagtgtt cacggcgccg tcgtcggcgc ggccgaagcc 180
 gaacctggcg gctcccagag ctgccggcca cgggcgcatac ataatggatg cgagcgtgga 240
 gtcctcgtgg gtgcattgct ggtacaggat cgcgcgctgg tgcttctttc tcatctccac 300
 gtcgtctga gggcggtcgt cttcca 326

<210> 57057
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-C11

<400> 57057

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 cctctatgct tctatcacta tccacttata aacttgagac ggtaatcatg ttcctagcta 120
 gattcaacca tctaaggagc catggaatga tgtttgtttc ctatcatatt tttaaattag 180
 ccacacaagt gaactagggt aagcactgaa gctattctaa tttctaacta cagcactttg 240
 cttccttctt attttataaa attagagtat ggtaagtgca gattcttagc aactctagtt 300
 agggatggta ttgggctcta gggttttatac tattaagtt taaggatagg attaggattg 360
 ggctctatct ctattcattt ttgaactaaa tattattaat gtgctaata aattgtgaag 420
 agattttgat tatttccacc ctcttagtct agttaatctt attttccta 469

<210> 57058
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-C12

<400> 57058

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agtagtgagg gactagttgg tatgtgtagt actgcactat cttttctcca tatgcatggt 120
ttgccagcgc gtaatgaatg taatgtcagt tcttaaatta taaaaaatta ttattaaatt 180
tttttaaaat aaaatttaaa ttttttatta tattatTTTT tttaatattt cttatatata 240
aattttatat aattctatta tattttttta ttttttaatt atatatttta tttttaattt 300
tctttccttt ttttttgtgg agtggtgttt ttacattctt ttcataaaat aatatagtaa 360
tctttaattt ttcatcatat attt 384

<210> 57059
<211> 278
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-C2

<400> 57059

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tccccacat accctcttga tacoggatgg aacatttttc tgtagggggg cgcaaantta 120
caactagtat ttctgctatc ttgtacagat tacagaattc tccttgcttg cttgagttat 180
tggtgtaaca tatctctgtt aatttgacac atgatctgac cagcttgtgt atctttattt 240
tttccctttc ctatctcttc atttcatatt tttccttt 278

<210> 57060
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-C6

<400> 57060

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ctgttcatgg ctggcgccgg gctgctctcc tgggctggcg gcgcgggctc tcatcatggc 120
ttgtggagca tcatcaccct gcccatgttc cagagcatgc ttagccaccg tggcttacat 180
gcgttttcca tttcaccttc tacacctact actccttcat ctaggcctcc agcatgttcc 240

ctgtcttatg caccactctt tacaagcaaa ctctcatgtc ttatctcaac ttcttttttt 300

<210> 57061

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-D5

<400> 57061

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ctcactcccc cgcgccgggg ccccgttcat ggtgggccc acctcctgtt tctctgggtg 120

ggcagctatg gtgccccgcc gtcgactgct ctctgggcct cccactgccg gtgatcccc 180

gccccggcgc ctcccgccaa cttcgaagct cgcgcgcccg ccggttgtgg ggacgccgga 240

gccccgctg ccgtttaggg ccgtggaggc ggagatcctt cgagatattg accccgtcgt 300

cctgctcatc aaggatatcc tccactccga tagatacggg gatggcgaat gtctctgccc 360

aagggacgaa aatgtcgtcg tggagaatgc tctgttctac cattcacgct cgca 414

<210> 57062

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-D6

<400> 57062

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catctttcct agacgccatg aacgtggagg aggaggtcgt ttggctcaag gaggagatcc 120

atatgctcgt cctgcatcat ccctatggct cttacaaggt caagtttggc gtcctcttca 180

acgtctaccg ttgtgcaaat atctttgaag cactatttgt cacctttagg gccgtcttga 240

agagtatgat ctttgacctt ctatggcgag cttcttctgc aagtgtttca tgtctacttt 300

tatataactc tgttgcccct acctt 325

<210> 57063

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-D7

<400> 57063

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ccctgaatcg gaattggtct ttgggggagc tattttttaca cctgggtgagg gccatttcta 120
atatcctttc ctataaatgc acataacatt ttaccaaata tccttaatag tc 172

<210> 57064

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-E11

<400> 57064

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accctctttt tatcaattat tacaactatt aaaaataact taaaattat tatttaattc 180
aattcaaaat ctaaataata ttaattataa tctaaatcta aaataattaa aatcatatta 240
taatttatat ttatatctta ataaattaaa ttataaatat tcatttaata tatatataaa 300
taatataata t 311

<210> 57065

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-E3

<400> 57065

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tctgaagttc cactcacaat ttcacatagt tgctgtact gcaaccggga caaccttgat 180
tagtccgctt ttggacactg attcctgcgt ttaaccgaca gataacgaag cataatgcgg 240
ttatatagcg ggcgctaagt gtcactgagt agttagcatg cagatactac cctcctgtac 300
agctttttta taaatatagt agcagtggta 330

<210> 57066
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-E5

<400> 57066

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gttagttctt atcccaattg tcgtcgctgt agactgtgct tttccacctt cagacaaggt 120
tggcataaat tccgtccaaa gggaaaatga ggaaatagtg ccaatgaagg cgatgaagat 180
ggcatgggtg ccttatgttc cccttgagaa ccggtgagc aggattgaca ttttcaaaac 240
aaatatattc acgctcggat gcacacagcg aatgtctgca ctgaagcatc tcaaaattga 300
gagagtcaag aagtttgact actgcatgcc ttgtaagctt aatcgagttt gtgcataata 360
ttttatgacg cttcatctac attattagta aaatggctgc aatggaactc tttgtcaggt 420
tatttcattg ga 432

<210> 57067
<211> 292
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-E6

<400> 57067

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tttgttattg ctgagcggac taagctttca ggcaagttct tttaatgtct tcttatgaan 120
agcctctcgg ttcattcttat ttagggaata attgatgaag tgtacagtac atttcacgta 180
tcatgtgtcc agcctatatt tctttgaatt tcacatgttt atgtcttttt ctaccgattt 240
gattcctttg tttgtttagt tctttcctta tttttttttt ttctatcttt at 292

<210> 57068
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-E8

<400> 57068

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gatttgctta gaaaaacatc caaagaaccg tctggggctc ctccacgtgc tgatgttggt 120
aagagcctta aaaatggcat cgtgggttaat attcttggga tgggcgctgc tgttctcggc 180
atgcatgcta ctgttggtgc tttggtagca aaagctctca catcctctgc agtaccctat 240
tatcatgctg cttgccaaag ccctgtcttg gcttagatg ttttctagt tcatgcttca 300
tcgaacacca tctgtctca tttccttttt gtggcgagcg ggggtggagct tcttctctcg 360
ttgtcacttt ctttatcaat aatccatctt tc 392

<210> 57069

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-F5

<400> 57069

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atctgatgca gacaagggcg cggagaattc aggccaggtg aacaccgccc cccaagaacc 120
gactgcagca actgcgacaa ggggcagatc caacctgggtg cctctgctgt caggcgcaca 180
taaggagct tgggtctccga tgagagaccg ttgctttgtg tgtttagggc aatacctcgc 240
atttgctttg agaattataa tcgtgggttaa cctgacagga cagcgctgtg cagcactagg 300
ctgcccagca cgtagttatc tttccgtttt ttttatggcg gcagggacaa atgcgtgtac 360
ccggttcaaa gtgtaactcg tcattagcgt gctgaacatt gatctctgga gcggact 417

<210> 57070

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-F6

<400> 57070

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tggagaatgc atacaacaat gcgaagacca ttgttggaac acacaacaaa gagcggcatg 120

ctctagccaa cgcacttctt gagcatgaga ccctcacagg agcccagata aagaacatat 180
tagcccaagt tcataacaaa ccgcaacatg aacatactat cgaagcacca cagaaggcct 240
cagtcgcacc agcttccccc gcatcaccag ctgcatcagc tgctgcagca gcagcagcag 300
ccgccgcggc agcacagcat gcggcagcaa aaagctaagg ggggtggctgg tatgggatct 360
tagcacattg gagcactccc actggtttgc attgtgtata tttcaccaa caagcaaagc 420
ttt 423

<210> 57071

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-039-Q1-K1-F8

<400> 57071

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aaacttcttg gacagcatct tccgtctccg gtcttatggg cttggtttgc ttcttttgc 180
tctgcctga agttgttttt ttttttaatc cttttaattc atattacttt tatatttcct 240
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tactgttttt ataattattt tttttttcct taataattat tgtgggtgtt gtttttttta 360
cattattcat ttccttctca tttctttatt tataattttt tatcgttttt taaaattttt 420
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<210> 57072

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-G3

<400> 57072

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caacgcccct catctccctc taccgccaga ggcttaccgc atggcgccga aggcggagaa 120

gaagccagcg gataataagc cggcggccga ggagaaggcg gagaagacga ccgcagggaa 180
gaagcccaag gcctagaagc ggctgccctc gtccaattcc ttcggcaagg agggcggctt 240
gaagaagggtt aagaagattg ccatgaagag cgtgtagacc taca 284

<210> 57073
<211> 396
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-039-Q1-K1-G4
<400> 57073

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acgcttgtaa aaacaatcat catcctctcc gtctgtgaat gacgaagggtg aggcacgcga 120
cntatcatgc tataggctag catccgtgct aatattttgt ggcacccctt gatccattcc 180
aaagegaact ctgttgtag ttttctatcg ttttgccact gcctacaact gttctgcgct 240
ttgcccttta ttatttttta ttattattct tattaatata tttgggctgc cgtttctatg 300
attatccatt cttatcttac tctttcatgc tacctcttag gtggtggtgt agtgtcttct 360
aaattttatt tttctgtccc ggttttttta taactt 396

<210> 57074
<211> 82
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-039-Q1-K1-G7
<400> 57074

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cctttatata tcaccattaa cc 82

<210> 57075
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-039-Q1-K1-H2
<400> 57075

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gctgaaagat ggcttaaaaa ggggtgtgctc ctaattaaca gagagcgaag tccaggctct 120
aatggaagca gctgatattg ataacagcgg aaccatcgac tatgggtgaat tcacgcgcatc 180
tactctgcac atgaataatc tggagaggga ggagaacttg gtttcggcat tctcattttt 240
tgacaaatac tgatgtggct ttataacatc tgatgaactg tcacaagcat gtcatgaatt 300
ctttcttgta aactttcacc tttaggatat gagtaatgaa gtttaccaga tctattattg 360
ctattatgat ttacttt 377

<210> 57076

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-H3

<400> 57076

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gctgggttaat gagatttggt gatttgggtt gagacatatg gtgatttgag ataactaag 180
ttctgtgggt tcttgatcc 199

<210> 57077

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-H5

<400> 57077

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ttaggttcaa aaaaaaaaaa aaagggaagg gatatttaaa aaggggggaa gg 112

<210> 57078

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-039-Q1-K1-H9

<400> 57078

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tcttactcgt gttctacatg accatgtatg attttaacga acagactgaa aacatgaaac 120
aaattcagga tgctttgtca gtcctctttg gagcttttgc tgatttcgac gaggatgaac 180
tgtaagctga acttgaagaa ctggagggag cagagttgga atctcagctt cttgagcctg 240
ttgcagctcc ttcggttcat ccagtgcagc tcccagccaa caagcaacca tctcgccctg 300
ctccacagaa agttacatct taagattatt aacttgcttc acttcaagct gaaatggctt 360
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<210> 57079

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-040-Q1-K1-A10

<400> 57079

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acaagttcga cgttcaagta cagcggcaaa cggtcgtcca gctgacattg aaatggtcga 180
ttcactagag acatatttcc ccagatcaaa gcctgactat aatatgtgaa tcgagatatt 240
gagatcatac cagttatgga cattacatgt ctgctacgaa atggaatatc tgtgtatgaa 300
acctttgaca tttcgaggca tgtcagacac cttaggacct aatagcgtaa tctcttgaat 360
ctgcacatct atatgattg 379

<210> 57080

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-A5

<400> 57080

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ggcttctata agcttgacgc caaagtctgc atccagatac gtgctgccga atttgaaggt 120
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 gcgatatatac tttgtacaaa atcgtctaata caataaagtg ggcacgtgcc taaggaccct 240
 accctacttt gtctgtatgt acatctactg tcacacttaa acagtacctg cagctatgcg 300
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<210> 57081
 <211> 220
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-040-Q1-K1-A9

<400> 57081

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 ttgaccatat tactattagt ccatagatna atgtatnata ttcaacttca accttaatta 120
 acttaacaat tataatctaga tgtcattcaa acaaagttca caatattgaa gaaatgattc 180
 tctcaatgga tgctcaataa gatgtgactc aagaatggct 220

<210> 57082
 <211> 319
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-040-Q1-K1-B12

<400> 57082

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 agaggaacag ggtgattatg tccgtgcatg gtacagtatg cttctgtcct gtgctcaaga 180
 attgaagcat ggcgtggcac tttggcaaga gttttatcat gcaaagtgtc gcgacagagt 240
 agtttctgaa agcggtcact actttattgc tcttggggag atatataagag ttgcacagat 300
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<210> 57083

<211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-040-Q1-K1-B9

 <400> 57083

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 gccaaacgac caccacctca gcncccgttc aaatttataa agcccctagc ccctccaaaa 120
 aaacccaaaac aataaacacc actaaaacac aaaatcactc tcaaacaatca acctctaacc 180
 ccataacccc tccaaaccac cactctcacc acctacaaaa cctccacctc tccacaaaacc 240
 atcttctaca aacactcata caaccaacct ccattctcct ttactcacca accaaaccaa 300
 caactaccac atcactctat ccacacaaca 330

<210> 57084
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-E10

 <400> 57084

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 acttgctgaa ctggtctatg atttacattt ataattgaag tctctcactt taatcaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaacccaaaaa aaaaaaaaaa aaatgccacc ctttttataa aaccacaactt aactaacctt 240
 tccatccaac ttaaaacttt ttttatatct acccctaata taaattaaat gcccctaatt 300
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 cccctt 366

<210> 57085
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-040-Q1-K1-G11

 <400> 57085

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acggcggtttc aggagtactg tcttggacta tgtagagaga tgctcctctg tgactgtgac 120
cacctcacgt tctgcgact gtaatctggt aggatgcctg tctctatcat gattcatgaa 180
ggacgattgg tttgtctttc ttcttatcgt gctgtttatt aatcgtgtaa atgtaatact 240
agcgaacgga aggcactggt agctagggtta gctcgagtcc ggattgaatg agaatgctac 300
taat 304

<210> 57086
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-H10

<400> 57086
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atactagtagt tgactctgag gctaattgtct cattcaataa ttaaactcct ccatctctat 120
aatacaaaaa tggaacttct taactacaaa atcctgctta aaatccatat gcacaataaa 180
ctaactactac tacatatgaa acacctgctg tatatgaatc aagttatact acctatgacg 240
aataggctta caaacctgat atcaacatcc aaacaactcc accatatctt cttttcccaa 300
caacaaacca aacaaggcat tttttcacac tctatattca atatcacatg cttgtttctt 360
caaaatagta tgattcacct taatgttata aatttcccca aatactat 408

<210> 57087
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-040-Q1-K1-H11

<400> 57087
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ctcaaacctc tcgagagtcg aatggggctc cgtgctgttt ttgacctgcg taattaccaa 120
tctgctggc ttactgaaca caaggctgcc ttgcttgtag tgtaccttct tgaagcccaa 180
aactgagtat atattattga tgaatgacga catgcaaatg tc 222

<210> 57088
<211> 180
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-040-Q1-K1-H9

<400> 57088

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ttactatatg ctaagatgct gtgacggtna tgtattcatt gtcacttgt gttccaaaga 120
ttagcccgac ttgtgtgtgc catgctgaca tcttttctgg ttccatactc atctttacgt 180

<210> 57089
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A1

<400> 57089

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atggttgatg gttgggctgg ggtagctggt gagatattga gattgaagcc actagtgatc 180
ttccacctga aaaacttttt cttggtcaag actgagaaag acagggaaga ggcaatggac 240
cctggaagta ttgggtttga ctcaagcgaa cctcaaattc agctgtattt cttacttggt 300
cttgtctatg cggcagtgac accatttttg ctcccttttg tattgatatt ctttgggttt 360
gcgtacattg tataccgtca ccaggtaagc aagcata 397

<210> 57090
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A10

<400> 57090

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agaccttact cagctattga gattctgttc cttttcataa gagaactgta cataccaaca 120
acggtcgctg ctgttggtact accactagta tgcaatgtgg aaccaataag ctttgtatgc 180
agcgactgaa acttctacat gtgtaagact gatcagtaaa gtctcgctgg actctggctc 240
attggcgctt acaactttat tcatgaaaaa agatccatta actctaaaat taaaagttgg 300
ccaacaacat gtttctaaag aaacaatt 328

<210> 57091
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-A2

<400> 57091

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gtantagtcg acgatcaatc tctgtacacc cggtagaaaa agttcatgag cttcatggca 120
gttagaatca ggattgagct gatattcatc ccgcttgatg tgtagctagc attcttgtaa 180
ctggaattgt gtgtgtaatg caaatcatgg gcgcattaga ctgtaatgaa gaaaaagtca 240
gggctgcgcc tttagaatgc agcttgctca aaaaaaaaaa ataaaaaaaa aaattaaata 300
taaaatatat taaaaaatac caataatata aataaaaaact tt 342

<210> 57092
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A4

<400> 57092

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gtttctctca gtcagcttta tagctccgtg aatgtacatt tatatcgctt tacatttatt 120
atatttttt gtaagacttc cgctatgtaa taatgacata ataatgacat ttatgatatt 180
tgtgacattt atctctaaaa aaaatactat ataaaattca aatt 224

<210> 57093
<211> 299

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A6

<400> 57093

aatacccggg ccgaccgcac gcgtccgccc aggcgtccgg gatgaccagt ttacatttt 60
 ctgttgctga cgaaaagaat cgatcatgtt cttaattaat aagcgaggaa tgcaaatgtt 120
 tattgtttgg actagagtga agttgcatca gaagttgatg ctgaagcctg aaggcactcg 180
 aaaaatgttg cagatgcatt tctacctgta tggcaatatt tagggagtcg aatatctgct 240
 gtatgtcaat gagaaaatgg gttttcaaaa aaaaaaata ataaaaaata aaaataaaa 299

<210> 57094
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A7

<400> 57094

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 tcggaggtaa aagaatcttc gggtaaagag aagttaaaca cagggagtgg ccacaaatca 120
 ggtcctccaa ataaaattat aaaaaatctg gtaaaaaaag tatcatccaa gattcacgag 180
 gaaaaagaaa gcccgaatgg tagtgccaag gttttttcga gaaagaagaa acccacagca 240
 gaaaaggaga tcaaagagaa aaagtcgtca ggaaaaaagg tgacaaaagg taaaggagaa 300
 tcagctgaag cagttcttcc cagcaaggac gatctgaaga agaccattac tgaaatcctc 360
 aagaaagttg acttcaacac ggcaactttc agtgacattc ttaagaagct cgacaatcac 420
 tacaaaatgg atctgacccc aaagaaagaa gccatcaaaa gtatgatcca aga 473

<210> 57095
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-A8

<400> 57095

aattcccggg ccgaccgcac gcgtacgcat ggatctagtg gccggtgaat cactgatcaa 60

agagcgcgca gccgccgggt tgaattgggt tgtttgatcc ctggatgtgg cggctggcga 120
accgcttctt cttccacaaa gattcagaca aaaccgagct tggatagaac tgaagaagat 180
ttggcgaacg 190

<210> 57096
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-B3

<400> 57096

aattcccggg tcgaccgcac gcgtgcgcc agcgcgtccg atagacgtcc atccgactta 60
gccatggatg gtcactactc aagctaacga gttggttcat gtttgggact accatacaaaa 120
ggtagtggaa tggacgattc agattaaggg agcgaaagtt agttcagcta aatttatagc 180
cagccaggat tggattgtgg cgggtactac ccgtggattc ctccacgtgt acgattgcga 240
atcgaggaag gaaatacgcc gtctttgtga acacccgaaa tctatcacgt ctttggctgt 300
tgacgatgat gcccttgagc tgggtgctgc agcgtccatc gatggcaaga ttttgatctg 360
gaactactgg cactactacc gcgcacgtag aggtagacgt agtacctggc atttggaaaa 420
aacattttga cg 432

<210> 57097
<211> 480
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-041-Q1-K1-B4

<400> 57097

aatttccggg tcgaccgacg cgtacggttc gtggtggatg caggccttgg tacccttaaa 60
atttgtatgc aagatgagct tacagtgctn cgcgttcaat ctagcgacca ggtttgagaa 120
taagggtgga ttcaagaatg tagtggctgg tgaatcactg atcaaaaagc ggatttttga 180
gagattcttc atcgatctag tggccggtga atcactgac aaagagcgag caaccgccgg 240
gtttaatgat tttgtgggat ccctggatgt agcggctggc gaaccgcttc ttctttcaca 300

aagattcaga caaaaccgaa cttggattga actgaagaag attttgccaa cgaagaaaaa 360
 ggtaaaaagg tttcaaatta ataaaatatt aatgagggtta tttattaacc atttcaggtt 420
 ttataacttt tctttcattt caaagcttaa aaaaaataa aaatggctgg cccctttttt 480

<210> 57098
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-B5

<400> 57098

gaattcccg ctcgaccgca ctcattgcgt aaagttcaaa ggaaatggca attgagattt 60
 ataccggagg caaggatgct ccttattcgt tatcttcctc gagtaggtta acaagacaaa 120
 gatcatatga ttcatttaac tctatatcgt gtgataagtt cgacatgctt acatctacat 180
 tgaaagatga cgggtccaaag ctaccctctt ccgccgaagt tctcgccgca ttacaagagg 240
 ttgaaggact tgatgaagac acataacttg agctttatga catcctcacc tctaattgca 299

<210> 57099
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-B7

<400> 57099

cgggtctcgga attccccgggt cgaccgcacg cgtccgcaa cgcgtaagcg gatacgaccc 60
 tacctttcaa cgcccactta aactgctact gctctggaaa aaaatgacac tgtgccaacc 120
 tgctagaaat gattacagaa gcatcattca atcccatctg accatcgac acctgctacg 180
 atgttgctat ttactacgat gccctctaga ctccgcctgc taaatagtgt actgatagct 240
 acatatagaa attcagatat acggacgcta ctacacgat ttctatgctg tcctactcct 300
 acgaactcaa cagctttctc tacatcacgc actaaacaag atggctctca atgtctccag 360
 atcatcatgt acatactaac cgatcat 387

<210> 57100
 <211> 269
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-B8

<400> 57100

aattccccggg ccgaccgacg cgtacgggtcg ctgacactat cagaagatgt gtacattaca 60
agcaggggagg tggagccagc gtttttgtga atgataagcg tctttgggtca tttgttcatt 120
ctttttttta caaaaaaaaa agagtatgta acatgagtta tacaactagg ctgttcttcg 180
agaaacaacc tgtaactgtc tgtcatatac ttgacgaatg agaagcgttt tcgtaaaaaa 240
aaaaaaaaaa atataaaaaa atactacaa 269

<210> 57101

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C1

<400> 57101

atttccggtc gacccacgcg tgcgcgagcg attgcggctg ctgaagtaag aggttatggt 60
tactccaac gtgtggaact cgcagcccaa gaactactgt cccggatccc gcgtctgccg 120
ggtctgtgcg aaccctcatg gactgatcag gaagtactgg ctgatgtgct gcatgcagtg 180
cttccgcagc aacgccaagg acattggctt catcaagtac cgctgaagtc agctgggctg 240
gctatctgaa tgccatctct tggacagtgt agtataggct atgccacaat tttaattact 300
gtcatttata tgttcccttc aaaactctgc tatttaagtc cgccatgttt tgtgatggaa 360
aacttaagct ttgtttgtta tactgattat gagttacctg tgctt 405

<210> 57102

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C10

<400> 57102

attccccgcc gaccgcacct acctttggta tagcttgaca tgccatcagt ttcacagtgc 60
cgtaagttcc ctagaggtaa agtagatttt taacagcatg gtgccatttt gccagcctat 120

gcacaaaacc tcaattgggtc tttgtaatgt ggtaatgccca tgtatcacta tcctagtctg 180
atggagtttt gggtgaaaa 199

<210> 57103
<211> 228
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-C11

<400> 57103

aattccccggg ccgacgcacg catacgggaag atctttccac gacagctgaa cactacttat 60
atcaaatgaa ccaccttacg aantaggtgg attcttaagc tcatgggaac ctacaagaac 120
ttgtacagct gatctctaaa tctggtcgca gctccatact caactacaaa tgtggaacca 180
aaaaaataat ccacttgtcc aaaatcctct taaaggcccc cgaaccct 228

<210> 57104
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C12

<400> 57104

tgtttttttt tttttttttt ttttgactgg aacagaagtt tttaaattatt ccaacgcac 60
atccggaaca tggtagccaa tacaaggatc gatcagtagg agtttatgag atgaaccaa 120
ttagttaaat ccgaccagc aaattcatcg atgcccttgt ccgcagcgat cttgagctcg 180
ttcatcctct tctgatgcc ctcccccttc tcgtgcccgc ccatgagcct gtcgatggcg 240
gccttgatct cccctttctc cagctgggtc ccggcgacct tcgtgcccac cttccaaacg 300
tggcacacgt acctcgcggt gccgtactgg tccccgtggc tcgggtggca aatcatgggc 360
acgcccttcg acacggcctc cacggtggaa ttccaaccgc aatgggtg 408

<210> 57105
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C5

<400> 57105

aattccccggg tcgaccgcac gcggtgcggtta ggagaccacg tcgctcgatc atatcgtttg 60
ggtgaacacc aaggacgacg tggcggttgta cgctttcaag cgcattggcgt acatctacaa 120
ggctaacacc aagagcagcg ataccgcgta caggtgcatc tggggcaagg tcacccgccc 180
gcacggcaac tcgggcgtcc accgcgcca gttcaagtcc aacctccgc ctgagtccat 240
gtagcgcaag gtcagagtgt tcatgtacc gaacagcatc taacgctagg tttttgtcta 300
agtaaaagtt gactccaaat ggccatgctt atttcttctc tctgagctta aaatgccata 360
tgttggaac ttatatgtt catgtactga acctgctgaa gttctaccaa aatttcttgt 420

<210> 57106

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C6

<400> 57106

cggctctcgga attccccgggt cgaccgacgc gtccgctcca tcaggcagtg ggcgtccgag 60
tacgttaacg tctactacaa gtccgacgag gccgtgtccg cctaccccga gctgagggcg 120
ttctgggacg aggtgcgcaa cgtggggcac ggcgacaaga aggacgagcc gtggtggccc 180
gtgctggaca cccgcgacag cctggtggag acgtgacca ccatcatgtg ggtcacctcc 240
ggccaccact cggccgtcaa cttcgggcag taccacttcg ccggctactt cccaaccgg 300
ccgaccacca tccggaagaa catgccggtg gaggaaggcg ggccgggcca agagatggag 360
aagttcctta agcagccgga gacgacgtg ctggacatgc ttgccacgca aa 412

<210> 57107

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-C7

<400> 57107

gaattccccg gccgaccgca ctcatagct caatcataca atactactac ttttacattt 60
acatatata caaaaactac ggggccggg tacatttaca aatatctaaa gccattctat 120

aactacttac acaacataaa tcacaactac aataatgact aaccatcatt acccatactc 180
 tacaccctct acatccttat atatactctt accaccatca tgtaactcac ctctcttcac 240
 cactctatca tcaacttcat acaataccac ttcaccact actttcccaa ctttcttacc 300
 accattcata agaaca 316

<210> 57108
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D10

<400> 57108

cgggtccggaa ttcccggggcc gaccgcacgc gtacggttcg aacctactga aaagaatgat 60
 atcataacat ccacggcgtc ctggctgggc atgaagagtg ttctgaccgg tctcacgtct 120
 ctgatgggtc ctgttccgat gctaaagctc tacggagtcc catacttggt atttgttgct 180
 tggctagata tggtcacata cttgcacat catggccacg aagacaagct tccttggtac 240
 cgtggaaagg agtggagtta tctgcgtgga ggactgacga cgctcgaccg ggactacgga 300
 tggatcaaca acatccatca cgacatcgga actcatgtca tccatcacct cttccctcag 360
 atcccgcat accatctcat cgaggcgacc gaagcagcaa agccggttct tggcaagtac 420
 taaaaagagc cgaagaagtc ggggtgctctg ccgtggcatc tattccgggt gct 473

<210> 57109
 <211> 455
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-D11

<400> 57109

gaattcccgg gccgaccgac gcgtacgtgc ggctaccgca gttccctgcc atgagagtgt 60
 cgtggccgtg gccatgacga ccgccttcag cncgctctcc gcggtgacgc gcgacctcag 120
 gcttatgctg cggtctggagt agccatcagg acacatagct cgtctgctgg ctctaacgct 180
 ggcttcgatt tctcttctta attcttctt ctttattagc tcctactcct agtccttgct 240

gacgcatcat cgatcgagct gcacgttggt tctggctgct ctcttggtat ggggtcccacg 300
 ctgacgcggc gaggtctccg gctcagttat attgtgcggc cgggtggtgaa gcacacggcg 360
 gacatgggat cccaccggga ccgcagtgtg gaatgatagg agctgtaata cactactctg 420
 tactgtgatg tgcaagtaca tagtactagt tacta 455

<210> 57110
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-D12

<400> 57110

gaattcccgg cccgaccgac gcgtacggcg agctcncnt ctangagaag gagagcttcg 60
 cctccaacga cgtctcggtc gtcagcagcn acgtctcctc cggcctcgcc tgccataggc 120
 ccacgggcaa caagagccgg ctcaagggcg gccggagctt gccgcgccgg aagcaggtgg 180
 cggcgtcggc gtctgcgtcg gaccaccgct tccaggaaag atcacacaag gtgagcaaga 240
 aggggcacca gcgagtggag caggagccgc acaaggaccg attcgacgcc gtcgccgccc 300
 tggacgacga cgcttgccag cctcccacgg attactgaga cgacctgctc tgtacataga 360
 tttggaagga tttgcagggc tagctgacga tttgtttggg cttgcactag tctgaaagac 420
 tgcacgggta ctgtctgctg agtgactgta cctgtcgtgt cggtcac 467

<210> 57111
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D2

<400> 57111

aattcccggg tcgaccgcac gcgtgcggcg ggtcgagatg gcggcgtcgg atgttggtta 60
 ccgctgcttc gtcggcagcc tcgccttgtc caggtagcag cactccctcc acaacgcctt 120
 cagcacctac ggcgaggtcc tcgagtccaa gatcctcctc gatcgggaga cgcagaggtc 180
 ccgcggcttc cgcttcgtca ccttctccac ggaggaggcg atgcggaacg ccatcgaagg 240
 catgaacggc aaggagctgg acggccgcaa catcaccgtc aacgaggccc agtcccgcgg 300

cggccgttga ggcagcagcc gctgccggtgta cagtgggtgg

339

<210> 57112
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D5

<400> 57112

gggccggaat tcccgggtcg accgcacgcg tgcggtgata tacgagtcac ccagcaaata 60
tggttgaccg acgattgatg tcgattctgt tttggtctct tacctccacc acccatggag 120
ctattgtttg aggaaactgt aagcaaagag atgtcgtggg aaaggaacgt gtcgtcctcc 180
ctagatcttt cactttggcg aattaggagg caggtgtgat aaataagagt cttgctagtt 240
cgtcgtcgtc catgttgtca tagatcctgt cttgtgtgtt catgttactg tgatgcaggc 300
aattgtgtgt tgtgtccggg cgttaa 326

<210> 57113
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-D7

<400> 57113

aattcccggg tcgacccact cgtccgaaag aaaaaaaaaa aaaaaaaaaa taaaaattaa 60
aaaaaaaaaa aaaaaaaaaa aagaaaaaga aaatttataa aaaataacaa cccctctaaa 120
aaaatccaaa acttacaac acatacatc aacaaaataa aatcttctat actgtcacca 180
aaatccaatt cactgcccct cttttttaca cttcataact ttaaaaaccc tcccttaacc 240
caacttaatc cccttacact acatccccct ttcaccaact aaccattac ctaacagacc 300
ctaaccaatc tcccttccaa acattttcc 329

<210> 57114
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-E10

<400> 57114

gaattcccggt gtcgaccgac gcgtagcccc aggcgtccgc ccacgcgtcc gttccgttta 60

agacgtgttt tgatgtgaac gatcagtagt gtgcttaca acaagtgatg ccctattctt 120

ctttcacttc ttgcegtttt tccaatgggt aaaacattcc cttctaataa ttcttacacc 180

tttttttttt ctttctttga aaagaacctt ataattctta aattgaccca attgtttgaa 240

ttgtaacacg cacaaaccaa ggttcgtctt ttctactttt gtataagatt gtgcctctaa 300

taaaatggtc taaaccctt actaagggat ctgcttgaaa caaataat 348

<210> 57115

<211> 471

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-041-Q1-K1-E12

<400> 57115

cggctctggaa ttccccgggc gaccgcacgc gtccgggagt ccgatccatc caagccaatc 60

caatttagag aagaagaaga agaggaggag gaagagtnca tcttagcatg tcggagggga 120

ctgccaaactg cgtggacatc ctgacgcca tcactctgcc tccgctgggg gtgttcctca 180

agtacgggtg cggccacgag ttctggatct gcctctctct caccttctct ggctacatcc 240

ccggcatcat ctacgccatc tacgccatca ccaagaacaa ctagctagtc atccttgccg 300

acgacgatcc atgtctctgt atctgcgtct gttcatatgc ctgatgccga cttgtgctgt 360

atgtagtgtc ttgaattcag tcgtgttttg ctaccgtacc caccatgc atcatctgtc 420

accgcgaccc aataatcatt ataataacca gttcagaaat tgattcccaa t 471

<210> 57116

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-E5

<400> 57116

aattccccgt tcgacccact cgtgtctaca cacatacca agaacatcct ttagattatc 60

cataccataa ctaacaccat ggatatgttc tacactaaca ttacacttc cattaccatt 120
 cttatctctg ttctcacctc ttacaattct atcttcattg tcataattat tttcgttcca 180
 ccttttgctc tacctttatc tctttactaa tccttttcac tttcctcaac acttaacata 240
 atatttccta caatcttcac tcataacata aattaactaa aaaatttaca taaaa 295

<210> 57117
 <211> 336
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-E6

<400> 57117

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 tggcttcaac gaccgccacc aaggacgacg gtntagtcgg ctacgagcgc cggcgcgagc 120
 tgcaggcggt cgacgacacg aagctggggg tgaaaggcct ggtggactcc ggcgtcaagt 180
 ccatcccgtc catcttcac caccgcggg aagccctgag cgacataatt tctccggcgc 240
 cgctctgcc gccgtcgtcg cctccggcg ccgccatccc ggtggtggac ctctcggtga 300
 cgcggcgca ggacctagtc cagcaagtga agcagc 336

<210> 57118
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-F10

<400> 57118

aattcccggg ccgaccgcac tcgtccgcc acgcgtccga aaaaaaaaaa taaaaaataa 60
 aaaaaaaaaa aaaaaaaaaa aagaaaaaga aaaaaataaa aaaaaaaaaa gaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggc ccccccttta 180
 aaaaaaccaa attttacttc cccatcatt caacataaaa cctcttataa agacccccca 240
 aaattaaatt aatttcctt tttttaaaaa ccactaaatt gaaaaaacct tgcttttccc 300
 aaacttaatc ctttttaaaa aaatcccctt ttcacaaatt gactaaataa caaaaagacc 360
 caatccaaaa ccctttccaa 380

<210> 57119
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-F11

 <400> 57119

 aattcccggg tcgaccgacg cgtaagccca ggcgtccgcc cacgcgtcct tccacttgtc 60
 cgcccacgcg tcctccgtcc tgtaacgaat tcttatgtag tagggctttc ctgctttggt 120
 aaagaataaa caatgagggt tcagttttgg tggcgcaaaa aaaaaaaact aaaaaaaaat 180
 aataaaaaaa aaaacaaaaa aaaagcaaaa cttaccatat attaaaaaaa aaaactaaaa 240
 aatttaaaaa aaaaaacggg gcgccgtttt aaataa 276

<210> 57120
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-F4

 <400> 57120

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 aaacattcct gtgctgtgct tggacgaatg gtctcggggc ttgttggttg actctactat 120
 tatttattct ttgtgcttct gactgcctaa gtattattaa cattattggt ttgggaaagt 180
 taacaaggcc cggttggcca gtcgctgtag aagcttgggg agaggagggg ggtgtcaatg 240
 tgacggacaa taataagggt tcgttggtgt accagagata gttgtaatat gtcattgtgct 300
 gatgcttttg tgtggtgcta gtacaagaca accagacagc tatagttgag gcaatgatta 360
 ttttgcgttc ataaaaaaaa tattaattat attttt 396

<210> 57121
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-041-Q1-K1-G1

<400> 57121

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ccagttcctg ggcaaccggtg tgaccaaccg cgtccgtagc gcggagcagc acaaccagga 120
cgtgaactcc ctgggcctca tctcgtccag gaagaccgcc gaggcagtgg acatcctgaa 180
gctgatgacg tccacgttcc tgatcgcgct gtgccaggcc atcgacctgc ggcacctcga 240
ggagaacgtg aaggccgcgg tgaagaactg cgtgacgcan gtggccaaga agtcgctgag 300
cctgaacgcc cggggcgggc tccacaacgc gcgcttctgc gagaaggacc tgcagacggc 360
gatcgaccgc gaggccgtgt tcgcgtacgc ggacgaccgc tgc 403

<210> 57122

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G10

<400> 57122

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tgccctgcc a tcatatcgta cgtgagcgcg gccgagcgag agcgaggag aggcattggct 120
gctccgaagc tcgcgacgct ggcgctggcc gtgctcctgg cggcgaccgt ggtggctccc 180
ccggccgcgg tgcgcgcggc gatgtcgtgt tccaccgtgt acagcacgct gatgccgtgc 240
ctgccgttcg tccagatggg cggggccatg ccgccccagc cgtgctgcgg cggcatccgc 300
agcctgctgc agcaggccaa caacaccccc gaccggcgca ccatctgcgg ctgcctcaag 360
aacgtcgcca acggcgccaa cgggagcggc acctacatca g 401

<210> 57123

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G2

<400> 57123

ggaattcccc ggtcgaccgc acgcggtgcgc ccagcgcgtc cgcccacgcg tccgcccact 60
tttccttaag aagtagatca tgcacccact ggtgatgact tcgtctagt tccctccggt 120

caatgtcgtc gtcgtcgtcg tgtaccttac gtgacatgct gtagcacgta cgctagcaga 180
gcagcacctc aatgtccttg ggtttgcttt gctggctctc tgttttcgtc ttgtgttgct 240
tttaatctgg cacaggtttc taaattataa taatgaatac ttttttgtcc attaaaaaaaa 300
aacaacaaaa catctaaata aaataataac caaaagacat cttgaaccat tatcattaac 360
aaacactaca att 373

<210> 57124
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-041-Q1-K1-G3

<400> 57124

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agagattggt gatcttggaa acttgtacag cnatgggtcaa acaccatggt cctgttttaa 120
gcaagggggt gagagtgtcg aaaaggctgc aaaggatctc gtacttattt tagagacaat 180
gaggataatt gcaatcacac tatctcctat cactccaagc ctttctctga ggatttacac 240
acagcttggt ttcacagaag accagtttag ggtgttgaga tgggaggata cgaaattggg 300
aagcc 305

<210> 57125
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-G8

<400> 57125

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ccccatgttt ttctggcgtg gagattgtaa ggttctacaa agtcacggtc tccaaagtga 120
cagcttgctt gattttaaac agtgtcgaca gtgttttgtc tctacacaga ttgcagatat 180
agcggtttaa acagttcgct ttaatccgaa acgaacaggc tattttacct gaatcataaa 240
acaaaaataa aaaaaacctc tcaataaaat tcaagcaaa 279

<210> 57126
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-H1

 <400> 57126

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 gggagaaatg acacctcccc cctcgagaat tggggaacaa ggacagatct gacacctcaa 180
 ttgcgagaaa taaaaataac agccgacagt tgcattgatcc ctgaacgaat aaattcagaa 240
 ctagaaaaca gatgtcagta aacaacatgt ggtgaatggt ggaacttgaa ctgctctagt 300
 tcagtgggca tctgttggtg catgcttggg atggatttaa tgtttcgttt tttttcttcc 360
 ttgtactgaa gtgctctgat cggtaacgat cactgtgtgt gaaatgcttg attgttatgt 420
 ggtatcatga gaatg 435

<210> 57127
 <211> 148
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-H10

 <400> 57127

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 aaaaaaacca acaatgttaa gagtccaatt taaaaaccc gtggatgcaa actaaataac 120
 tcttctatag agacacctaa attcaatt 148

<210> 57128
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-041-Q1-K1-H2

 <400> 57128

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 gtcaaggccg gtggtgctta caccatgaac actgctagtg cggtcactgt caggagcacg 120

atccgtcgct tgagggagca gactgaagca tgatcggtcg cttgtcaggc atactggggt 180
ccactatatt ggctgtgtag ccgagacagt actccaacc 219

<210> 57129
<211> 476
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H5

<400> 57129

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tcgcattaga ggtcgaaacc ctagcttttg gggcgtgtgc ggttttagaga agatgatcta 120
cgacgtgaac tccccctct tccgttcctt cctcagccag aagggcggcg ccgacaagag 180
gaaaatggag gagcataaac caaaggagca gaggcccaag gccaacgaga acaagcctgt 240
gatgaacgaa tgagtatctc cagaagcttt gttcaatgtg caaccaagtc cgatgtccgt 300
ttgctctggt tagcttaaaa ccaacgcttc caataatcct attggtgtct tagtttcccc 360
ttatagtgtt atttgctcgg cttgaacatt gcaaacggaa atgaaacttg aactacctat 420
ggtactgtca tcaatttgag acccccatga ttgacaaaaa aaaaaaaaaa gggccg 476

<210> 57130
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H6

<400> 57130

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tatctctcta ccaatatacg ggcacagtat aatcatcctt ccagacaatt actgtctata 120
ctccatctat catttcaact ttgctactgc tgatgacatc cagaacacca acatcttcta 180
tatcctatga tctccatcca tctgacatc tta 213

<210> 57131
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-041-Q1-K1-H8

<400> 57131

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aaaaaaaaaa aaaaaaaaaac aggtatagga gaccttaaaa aacatacaca tccatacaac 120
aatataaact ctactataat ataacctaaa ttcaattcac tctccatca 169

<210> 57132

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A11

<400> 57132

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ggagacccat agggccgcgt agagaaagct taagagctta ttctacagag acgcgatacc 120
cagccccatg gacggcatga actgtacaga gctagacggg cggaacatta tcgcctacga 180
tgcccagatc cgcggcttgc ggagaggcag cgggtggcgca tacagtggcc cgcgcctga 240
tagaggcggc ta 252

<210> 57133

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A7

<400> 57133

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gctgtaggcg ctgcagtgcg acgggggcct ttgccgggcc ggctggcaga tcctcgtcga 120
gtccttcacc gacttcgcca tgctctcgca tacactgtgg atcctgttct accaccggct 180
gctgctgccc aagctccgca agataaccgg tacggaggag gggttcacgc tgctccagcg 240
ccagggcatc aggatcgtgc tctgcactgg acccatggtc atcataggca ttgtctagga 300
cacgacgccg tgcca 315

<210> 57134
<211> 74
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A8

<400> 57134

aaaaaaaaa aaaaaa aaaaaa ttataaaaaa aattaaaaa aaaaaaaaaa 60

aaagaaaaa tggg 74

<210> 57135
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-A9

<400> 57135

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gtgtattagt aataaccgaa caaccctta gggcttggtc ggtagctct caatccatat 120

ggatagagtg agattgggtg ggattaaatc ctaagcaagt caaagttctt ctaatctttt 180

tccaataaat actcaaagaa caaacaatga taggtgacac cggtggtgct gctgataggg 240

tgttgaaacc agctgcttac tgagatggat ggcaaagaat gcgggcggcc cttttaaagg 300

ttccaagttt acgtacccgt ccatgc 326

<210> 57136
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B12

<400> 57136

aaaaaaaaa aaaaaatta aaaaaaaat ataaaaaatt ataaaaaaaaa aaaaaaaaaa 60

aaagaaaaat tgaaaaatta aaaaaggaaa aaaaaaaaaa aaaaaacaaa aaaaataaaa 120

aaaggggccc cttttttaaa ggttccaact tttcttcccc ttcctttcaa ctctttacct 180

tttctttagg ttcccctaatt ttaatttctt 210

<210> 57137
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B2

<400> 57137

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tagcagctag acgtgcctag caacctaggt ggtgctcagg cgttgcttga catttgtact 120
ttctatggac agtatgccat gttgaataaa gtatttttgg caaaaa 166

<210> 57138
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-B5

<400> 57138

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aatgcttcga ccctcagctg gattggatgg atgagcctac ggtgctgcac aagccgaacc 120
ggccctgcgc ccctgcctaa caccaatatg ttggacactt ccactactgt tcttcacttc 180
ccatttgtat aacgggacct gcattattgt agcatgggtg cagcgtttcc tatgtaattt 240
ctgtgacatt accaactcac aatattgatt tcatctgaaa tgtaacatat tttttcac 298

<210> 57139
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-C12

<400> 57139

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gaaaaataaa aaaaaaaaaa aaggccaaac aatataaaaa aataccaaaa cataaaaaaca 120
catacatgca acaacataac aaatactata gtgacaccta aatatcaata a 171

<210> 57140
<211> 356

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-C8

 <400> 57140

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 gcagtctgta cacatgctaa cacatgatcc gtgtggtttg tgaagagaag ctgctgccat 120
 gaacaatgga cttcagccac aatattatgt ggatgtcgtt tcatgggcta ccggcgatgc 180
 tacaggcccc gatcgaatga tgatcagcag atgggaactc gtagttcctt gctgtctgca 240
 gcatctttct catgtaccgc tagcatgtgc gtgtttgtgg ttgggttggg ttgtttggcc 300
 gatttactga tcattggcga atgaagtgat ccatgtacat cattttgaag aattgc 356

<210> 57141
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-C9

 <400> 57141

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 aagtgacgag attagaccga gcatttatga gcccgaggc attgaaattg taggatctgg 120
 agtcacatca atgccataag aattgtcgat tacggaaact gaaccaaacc agtttaacag 180
 gatcagattc atccgaaact gacatgactt cacatttgtt aatttatagt gacaaagtcc 240
 ttggtgtaca cgagttagtt ctgacagatt gtacagttct tctgggtaga aagcaaaatc 300
 tgatagtga ccatctgac ctgatcgca atgcttgtat agccgtctca cctacttcag 360
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 ggaagaaata tcttaaccat ttgaaaaaaa ataaa 455

<210> 57142
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-042-Q1-K1-E4

 <400> 57142

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 taaaccgaga aagagcttag attctttttg tgcggtttga aggccccctc cctctccatg 120
 tagcagttgc cgtatttgtg aagcgtaact tggtgtttct cattattatc atcccccttt 180
 ggtccatttg tataacctgt atcgcccatg tctgggtggtg gacaatcggg agttttttgtg 240
 tgtaatatata aggtgctagg ttttcccacc atgccgattg taaagttgcc ctgggtgcgca 300
 ttgcaactgcg atttgtagcg aataggggaag gaaaaattta taggttttgc tttgtgcaaa 360
 aa 362

<210> 57143
 <211> 52
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-G2

<400> 57143
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<210> 57144
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-042-Q1-K1-H3

<400> 57144
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 ggaccagtat tcataggttt ttagttagca atgtgttggt ggcccgttgc tagtccttgt 120
 aatacaagcc cacctgtttt tttgcgcacg gcaagactta aactgacaac attttgtagt 180
 accttttatt ttgtatcacc tgctctatac acgagttttc ttggaacatc ggaaaaaaaa 240
 aaaaaaaaaa aaaaacaaaa aaaaaacaaa aaaaaaaaat aaactaaaaa aaaaaaaaca 300
 tta 303

<210> 57145
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H7

<400> 57145

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gatcggacac aatcaggctc tgggtgcaggc ggtgtcaacc tcaacacctt gatgaacatg 120
ttcagcgggc ttggtgctgg tgggtggccta ggtgttccaa atgctcctaa tgcaccgcca 180
gaagaactgt acgccacaca attagctcag ctccaagaaa tgggtttctt tgacacacaa 240
gagaacatcc gagccttggc cgctaccgct ggaaatgttc atgctgcagt ggagcgactt 300
cttggaaata tgggctaata gaatatgatg atcataactg tactcagata ttgtgatttt 360
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<210> 57146

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H8

<400> 57146

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cactcgtact aattgctggg cgacaacatc gggaggtaca tggactcctc ggcggtgaag 120
gtcgtccagg gcggccccga cgtcggagtg cagctcatgg agcaccgctg ggacaaggctc 180
ctcttcaccg ggagtccccg catcgcgcgc gccgtgatgg ccgcggcgtc caggcacctg 240
acgcccgtcg cgctggagct gggcggcaag tgcccctgca tcttcgacgc catgggcagc 300
gcccgggacc tgcagatctc ggtgaaccgc atgacgcgg gcaagtggc gtcctgcgcc 360
ggacaggcct gcacgtcat cgactacgtg ctcgctcagg agcgttttgc gcccattctg 420
atcaaggtgc tc 432

<210> 57147

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-042-Q1-K1-H9

<400> 57147

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 tgccatactc ctttgtactt tcagattatt gaacggagca tggcaagggtg taatttagct 180
 cagctttcgc attggctcct ggctcctgg ggcgttatca taccgtgcgg ttggaatgaa 240
 ctgaggagct tcatgccaaa a 261

<210> 57148
 <211> 217
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-A2

<400> 57148
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 atattancaa atattgtaaa ataattgggg agggaagatt attaaatata caggcttaag 120
 aacttataaa atggggcgctc ctttttaata tatccaaact tctttcccag tgcatacaat 180
 ggtaaaaatt taatatattg tcccttaaatt taaatta 217

<210> 57149
 <211> 101
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-A3

<400> 57149
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 gtgcatagtc agtcaatggt agcttccttg tccttgcnaa a 101

<210> 57150
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-A4

<400> 57150

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 caaaattgca acaattactc ataagtctaa gtagggaggg tcgactgatg caacacagcc 120
 agggcagcat aaggtactta taagctgtaa caaaataggc cttgaaaaca tctcaaagca 180
 ctgatcattc ttaggcagag gtggcagcag aagccttggc ggcggcagaa agctt 235

<210> 57151
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-B12

<400> 57151

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 aagttgtttc ccaactggtgc tggtttgga tctgtttggg aactttttac agcagtgccg 120
 gttcttgtca ctgcttacgt ttgccattac aatgttcacc caattcataa tgagctaaag 180
 gactctaccc agattaagcc aatagtacac acatcattga cactatgctc gaccatctac 240
 atcacaacaa gtttctttgg atatctctc tttggtgaat ctacactctc tgatgtgctc 300
 tccaactttg attcaaactc tgggatccca tacagttcag tcctcaatga tgctgtcaga 360
 gtgagctatg ctgttcacct gatgcttggt ttccccatg 399

<210> 57152
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-043-Q1-K1-B4

<400> 57152

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 cgggcgcagg tttgctctgg gggaggcgga agcggaagcg gcagagggcg acagccccga 180
 cgagcagagg cggaggaggg agaggatcca ggagactgtt gccgcgctca ggaacatggt 240
 cccccggggc atcgcgaaag acgccgcggc tgttctggac gaagcgatct gctacttgca 300

gtacctgaag ctgaaagtga agacgctggg agctgtcttc ctctagctaa gcctatctag 360
ccctctctcc tcgtcgtggt g 381

<210> 57153
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-043-Q1-K1-C1

<400> 57153

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caaacaaaaa ggccgcccc tctaaagaat ccaaccttac taccctgtcc atgcaacgga 180
atatctcttc tatagggccc ccaaaatcca attcactgcc ccccttttaa caccgtcgta 240
actggaaaaa ccctgccgtt ccccaactaa atagcctggc aaaacatccc cttttcccca 300
attggcgtaa aaccaaaaa 319

<210> 57154
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-C2

<400> 57154

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gaagcccacc atcacctccc gcgagatcca gacctccgtg cgcctcgtgc tccccggcga 120
gctcgccaag cagccgtct ctgagggcac caaggccgtc accaagttca cctcctccta 180
ggcttgcaag ctgcaccttt gtaggcttct cttgtgttga tggtcgctt gtgtttagt 240
tagatgttgc tggtttctct gtcggcgctg ctctgcttct gtaggaactg cgtcatgtaa 300
cccagcaagg acttgtttat ttgtgaatca tcaacacttt gttgttgatc acttatgttc 360
caaattctga gtttgacgc 379

<210> 57155
<211> 358

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-C3

 <400> 57155

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 ttggatcgtg tctnccgtcg gtgaaaagag aaaccaacgg cagaggaggg cgcgccctgg 120
 tttttacagc ggctgcgggt cccaacttcc caacaagtga gaaaaaaaga agaagaggcg 180
 aaacatacta agaccagccc tagaaaacta gctagccaag tactatgttg atctgtaggc 240
 cgctttggcg attccgtctt ccaaacctgt ggagttgtga atccttttgc agattaaagt 300
 aaagttcgtt agccccnnnn aaaaannaaa aaaaaataat aaaaaatata aataaaat 358

<210> 57156
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-D5

 <400> 57156

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 gagggggggt gcacatcatg gtgatcgcca atgtgcatca agttctctca tcccttgcca 120
 gaccatgctt atttccattg caaaatcatc aagctctgca tcaacttggt gtggataata 180
 atgaaataat aaatggtgcc attccatggc aacatttttc tgtcagtagt ttatgaggca 240
 ctgttctaaa tgtactgttg agtggaattt gaatatgtat gcttttgcaa tcgcacacct 300
 aaataccttg tgcttatact ccttggttacc taantnnaa 339

<210> 57157
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-E1

 <400> 57157

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 ttecttcccc gcgcgcctc cgggccccgt cgccgccatg ggtgaagtan nctcgcagga 120
 aagccgggca acccttacca agtcggctaa gggcccatgg gcagggatcn tgaggggtccc 180
 acttcaaaga acacaaaggg agaccagcct ttgcgccttc gcaaggttgg tctttgac 238

<210> 57158
 <211> 234
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-043-Q1-K1-G3
 <400> 57158

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 ngagccagaa agaaagggcg gatgaaagtt caaaaaaggg tngnntcgaa gggtgcaacn 180
 nncaagtttc tttccttaag cannagctga aggggaacct ccaatnnntt ttg 234

<210> 57159
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-043-Q1-K1-G5
 <400> 57159

cggaattccc gggtcgaccc aacgcgtccg cggacgcgtg ggggaacccg atactcgtgt 60
 taactgtata gcccctgggt ttgttctac gcggggggct agtttctca cagaaaatga 120
 gaccattagg aaagagctta acgagaggac caagcttaag agattgggta ctgtggaaga 180
 catggctgcg gctgcggctt tcttggcatc tgacgacgca tcatacatta cggctgaaac 240
 cattgttgtt gctggagggg tgcagtctag gctgtaaatc tggctgaagt ttatatttac 300
 ttggttaata atgtgtacta gtgccctagg cgtggctaata aatgtgtact agtgccgcta 360
 gagcatcagg ctaccttcta tatatgacag gcaactctaa aagattttct atatcttatt 420
 cctcttc 427

<210> 57160
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-G9

<400> 57160

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ggggcggata aaaccaaaaa aaaaaacata cgggccggcc cttctaaagg atcaaagctt 120
acgtacgctt gcatgcaacg aaataacttt tttatagtgt aacctaaatt aaatta 176

<210> 57161
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H7

<400> 57161

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tgctcgtgcg tcacgcttgt acttttatct tctgtcaaac caaaggtaca tttgtaattc 120
aatattgttt atatTTTTcc atgataatat aatgaggata aattgacagt gcta 174

<210> 57162
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-043-Q1-K1-H9

<400> 57162

cccacgcgtc cgcccacgcg tccgatccct cccccccat tcaatagatc gtagtgagga 60
gagtgattac agcgagcaga aatagtcggc atttaaaata attcgtggct ttcgagtttg 120
taacagcgtg cgggttcaat cctgcccgtg attttccttt gtaataataa catgagcaaa 180
atcttgacag ccggcagcga atgtcgctct ggagatggca aatgtgtgtt ttgaactgaa 240
tggtaaatgt gcggttctct tgaatagtat cttggctaaa aa 282

<210> 57163
<211> 406

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-A11

<400> 57163

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 cggttaaggag ctagacgggc ggaacatgac cgctaacgag gccagttcc gcggctgccg 180
 tagaggcagc ggcggcggat acagtggccg gcgccgtgat ggaggcggct acggcggcgg 240
 cgggtggacgc taccgcatgg gtcgtggagg ctacggccgc ggtgggggat acggtggtgc 300
 aaaccgcggc ggcggctacg gctacaacga cgggaactgg atgaactgag cggtggagtc 360
 cgctgaggcc tagttaatcc ggtcgcttat gctaccgcgg tcaccc 406

<210> 57164
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B1

<400> 57164

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 caccagtagt tgagccgtga aggaatggaa aaactttcca cttgctcatt tccgagcgcc 180
 ttctcattca ttgtatgcat gttttggact cgaggctgga cgtcttgac acaggaatcc 240
 aatcactgga gttgcaaaaa aaaaaaacat aatcaattaa atggtcgaac tg 292

<210> 57165
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B2

<400> 57165

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cccgcgaacc atcgagtttt tgaacgcaag ttgcgcccga agccttcttg cggaaggcac 180
gtctgcctgg gcgtcacgcc aaaagacata gaagaaaaaa aatgaaagaa tctaaaaaaa 240
aaaaaaatat aaaaaatat aaaaaaaaaa ataaaaata aaaaataaat attaaatatt 300
aaaaaagggc gtcctttcgt gacttaaaat taaccgtccc aattaacgtc cccgtccatt 360
aaacctacaa aatcccggtg tccctcgtct taatcaattt aa 402

<210> 57166
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B6

<400> 57166

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gcgatacctg gtgtgaattg cagaatcccg cgaaccatcg agtttttgaa cgcaagttgc 120
gcccgaaaggc ttctggcgga gggcacgtct gcctgggctg cacgccaaaa gacaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata aaaaaaaaaa ataaaaaaaa 240
aaaaaaaaat taaaaa 256

<210> 57167
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-B7

<400> 57167

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cgggtgatga tcttgcttag caagatgctc atctcgtagg actttcttat gtgtctgtaa 120
tataaaatac cggacgcgtt cgcgaaaagt acaacttcaa gagctgaaag aaaggcttct 180
atgcatagtt gggaaccctg gagactgaat tataatgaat ggggctgccc gacgttattc 240
tgaaaaacat cagatgttaa gatcaagagc atttctgcag ttggtggtgc tgaatggaac 300
aagcccgctc agaatgagag cgtctatcaa tagagaaggt attgactttt ccgatgctca 360
aaacatgcat ccagtgcagg aatgggaatt agcatagaac ctgcaaggag ctcttgag 418

<210> 57168
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-C10

 <400> 57168

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 aaaaaaaaaa aaaaaaaaaa gaaaaaagaa aaaaaaaaaa aagaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggcgaccg ttcaaaagga 180
 cccaaggtaa cctaaacttg catgcaacgc caaagggtcta caataaagcc acctaaatta 240
 aattcattgg ccgatgatta aaaaaaactt aacaggaaaa accttggaat aaccaaatta 300
 aatcccctta ggaaaaaatc cactcttagc tactgggcat aataccaaaa agccccccac 360
 tgatcgccct tctaaacagt tgca 384

<210> 57169
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-044-Q1-K1-C4

 <400> 57169

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 aaaaaataaa aaaaaaaaaa aaaaaaaaga aaaatttaaa aattaaaata gacaataata 120
 caaaaaaaaa aaatattata taatcatacc taatttttat tttacttatt atttttttcc 180
 atatttctta attgttataa ctcttttttt taccaaactt aatttcttta caatttattc 240
 cttttttaac atatttcttt atattaaata tgcccttacc tattaccttt ctcatcattt 300
 atccatttta aatatttaac tatattattc ttataccttt aattttaatt ttatatattt 360
 tttttgttac tctcagcttt tcttttttcc tttttatctt cttatttttc gatttttttt 420
 atttctttcc tttttttttt 439

<210> 57170
 <211> 376

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3088-044-Q1-K1-D1
 <400> 57170

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gcagtgcgac ggcacttcag gctcactcga aggcgaagca tgggggcaag tgagtcgcag 120
gtccaataga gtcaacaaca aatgcgaaac atgggagagg agtcggggtt gttgggaagg 180
aaaattagat tagtatcagt tttttttgaa tgggatggga acgtggctgt gaatctcagg 240
gttgtatgct cggtgaagaa aaaaatggaa ggacttcgga atgcacgatg ttgatgccga 300
atattatcca gcgtaaaaaa aaaaagtntt tccacgtgnt gataaacctt ctcaacctaa 360
ttgctaaaat agacat 376
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<210> 57171
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-044-Q1-K1-D4
 <400> 57171

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cccagccgca agccgaagcg ggcgccggcg ggcgggacaa ggcagaggcc gaggccgagg 120
acaaggagga gtgacgggtg tagtcagggg ggaacgggaa cggctggagt tgtttgctc 180
tcgcgttctt ttcacctgta cgcaggaaat actcctctg cataagacta ctgtactttt 240
ggataaaaaa ttttatttct aaaaaaaaaa aaaaaaaat aaaaatgaat taaaaataat 300
aaaaaattat ataagaaaaa ttaaaaacac atattatgaa atataaaaaa aaaaaggggg 360
gccgttttaa aggatccaag tttacgtacc cttgcttgcg acgtcatagc ttttttatag 420
gggcacctaa atttaattt 439
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<210> 57172
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-D5

<400> 57172

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cagagatata ctgaactttc tatgcttgtc catcagaacg tatgacaaac agaaaacctg 120
aagtttctaa gaaacagaag agaaagaaca agcagtcaac acagaccccg tcagtgaaaa 180
atgagcctgg gcaacaaatc cccattacgg aacttcaagt tctacaagtc aatgtctctg 240
cttaaaaagc aagaggcgta tgccgctgat ccaattaaac ctatggaggc tgccgcgttc 300
aagaacacaa aagacaccgc ttctccaccg gagaagaaac cttcccaacc aacttcatca 360
aagaagaaga acagaaaagg cggcctgtcg ctgttctga gcggcgtctc cgacgacacc 420
ccaaaacc 428

<210> 57173

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E12

<400> 57173

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atggaaaatt aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa ataagggccg 120
gccgttttaa aggttccatg cttacttacc cttgcttgca acttcatagc tcttttttag 180
tgtcccctaa ttctatttca ttggccttcg ttttacaccg ttgtgcctgg aaaacccttg 240
ccttttccca atttattccc cttgcattac atcccccttt cgccacttgg cttattacct 300
aataggcccg caccaatcac ctttccaaac agttgcccg cctgattggc aattgggacc 360
cccccttttg cggcccttta agccttgcgg ttt 393

<210> 57174

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E2

<400> 57174

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 gtgaaacccg tgctgtgcat gagttaccgt aacaggaggg tttttttgtt gttgttgggc 120
 acggtcagtg tccccgcaaa tttgctttga ctgcgtgaat gtttttcgga ttcttagatc 180
 tgcaatcaga tacctagtcc tgaaaaaaaa acaatg 216

<210> 57175
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-E5

<400> 57175

cccacgcgtc cggcgattca ggggtgaacca tcagattgtc tagtgtcttc tttgtaataa 60
 atttatctgt tcttggtact ttgtctatgg ttgaatcgga acccattttc cgtttgccta 120
 gattcttaat ttctggtgct gtatccagct gaaactagta gatctatgat cttgcggctg 180
 cagcatgttc ttgtcacttt tatctggtct ccgttggttc ggttcacagg ttgtgtgctt 240
 taaaaggctg tgcttaagtc ctgcaattcg agtccaccaa actgtagggt gcaagtcgag 300
 attttattag tgatgcaagt tgctggtatt ggtgcattat cgggctaata cgcttgcgtt 360
 gccttctgat tttataagtg atgtaaattg ctggttttta cgtgc 405

<210> 57176
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F1

<400> 57176

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 atgagctgag gaagtctgta gatcagaata tgccgttcta cattttcctt tcccctttgt 120
 agtaccatg gcaataacaa tgagaccatc aaacagctgt gcatttaagt atggaaatac 180
 tcccgtctgt gtctgtaata aggacgtttc atgtggctga aacctgcaa ttctgttaat 240
 ttttgcata cttcttggtc aactggtgtg aattgtatac tttgttcacg aagcactgat 300
 cataaaaaaa aaaaaaaaaa aaaaaaaaaa aatagaacac aaataatata cctaaact 358

<210> 57177
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F8

<400> 57177

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tgctgattgt aacctaatta gcctgcagcc agttaagcag ggactgccta ctctgctagg 120
aggacgtgtg taatcatgtg gcctgcgcaa acagtaattt gtgctggctg ctgtgtattc 180
atgctgctct gataatcgtg tcgtggtaat aatatatcct atttattcta aaaaaaaaaa 240
aataaaacaa atacagaaaa ctgaaagaaa aaaaaaaaaa ggcacattaa aaaagaaatt 300

<210> 57178
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-F9

<400> 57178

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tgaaaacaat acaaaagcta tcgtgtacag atgcaatgta ttttcgttct gattttttag 120
cgcttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cgtccatttt acaagatcca agattacttc 240
ctcctgcatg caaagtcata gcttttctat aggggcacct aatttaaatt 290

<210> 57179
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G10

<400> 57179

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gcatcatcga tcgagctgca cgttggttct ggctgctctc ctggtatggg tcccacgctg 120

ccgcggcgag gcttccggct cagttttatt gtgtggtcgg cggcgaggca cgcgggcgcc 180
atgggatccc accgcgacgg cgggtgtagaa tgatagcagc tgtaatacac tactctgtac 240
tgtgatgtgc aagtagatag tactagttac tagttagcca gtgtaggggt cctccgtgta 300
acaagtcac agcgtgtgat cctcttcgtc tgttcatcaa tatacacatt tctatatgtt 360
tcaacaa 367

<210> 57180
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G5

<400> 57180

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gatattccac tagcggacta ccttcctcga gatatgctgg gcattttcaa tctatttgga 120
ggcagggggt attcttccac aatcagtgtg gtcctatata atcagaaatg ccgataactt 180
aactggacaa tatgatttct acattggggc ctaccgtgcg ttttacattc taaactggat 240
ttatcgttat ttcacggagg gtcacgcacat cagatggatc ccttggcttg ctgctttcgt 300
gcaaacagat ctgtatgcat attgctacca ctattaaatc ttaaggtcga agaaca 356

<210> 57181
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G6

<400> 57181

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caacatcacc gtcaacgagg cccagtcccg cggcgggcgt ggaggcggcg gcggcggcgg 120
gtacggtggt ggccgcggag gcggcggtta cggcggtggc gggcgccgtg atggcggcgg 180
cggctacggc ggtggcgggc gctacagtgg tggcggtgc ggctacagtg gtggtggcgg 240
cggctactgc ggtggcaacc gtggcggcgg ctacggcaac tacgacggga actggaggaa 300
ctgagcgggtg gggcccgcgc ggtcaagtta tcctgttcgc taccgtgttg ttaccctag 360

tccagagtgt ttatcttcga tcgtctcgtg tttgttggtg cccatctgtg tttttgattg 420
aaggtcgctc tgtg 434

<210> 57182
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-044-Q1-K1-G7

<400> 57182

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggccctttt aaaggatcca 180
agtttactta cgcgtgcatg caacgaaaaa atttttttaa agggtcacct aaattaaatt 240
aattggccgt gttttaaaaa ctgtgggatt ggaaaaacct tggggttacc aaatttaact 300
gctttggaga aaatccccct ttccccagtt ggcgtaatac caaaaaggcc acaacggaag 360
gcctt 365

<210> 57183
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-A4

<400> 57183

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agccatctag gtttgtagg cgtccaaggc ggcctccagg cgggagcacc caccagacc 120
tcgagttctt ccagcaaggc ccagacttct gagaatcgcg cagaggccgg tcagagcctc 180
gccctaccct caggaataa cttcaaatg ctgagccctc gagctagata tcccgctcgc 240
ttggcgtgat tgcaactgct gtatcgagta tagtcctagt gcgctttggc tgtgaagatg 300
gatgtgaaca tcggcctagt gtatctactc ttaaattcca g 341

<210> 57184
<211> 411
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-045-Q1-K1-B12

<400> 57184

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cgtgcattac caaaaaacaa tagacaaggc gcaaggtgaa aaaaaaaact gaacaaaaaa 120

taataaaaaga gcgccagttt ccaacattat gcatgatggg tactagtact ggtgacggcc 180

ggcgattgat attctggatc agatactaga tattgggtgac ccccgtaaga aggggcttca 240

cttggctaaa tagtgtacca cttgtgcata ctatcctttg cttactctac cttcttggtc 300

catgtcagtt ctcaaggtga cccacactac aatcgccgtt tgcatgcagt gccctccctt 360

catggcaaat gaaatgcctt ttacaccgaa cttttaaacg aaccgatca c 411

<210> 57185

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C2

<400> 57185

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ccaccgagac agtgggaagct tgaacgtctt agtttactgt tccaagtgtc gcgaaaagag 120

ttttctgtac tagctacata ttttaaagtgt tattttgaat tatgatgaga aaccaaggta 180

tgcacccaaa 190

<210> 57186

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-C4

<400> 57186

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aaactgaact cactattcat caaaataaat catttcaaaa atctacataa actaaaataa 120

tattaacaaa tataaataaa aaacgccaga cttctttaaa atatccaatt ttac 174

<210> 57187
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-D11

 <400> 57187

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 gcatgatatc gcagtctagg ttggtcaagc gttcctccaa ggcgatgagc atccgaagct 180
 gtctacttgt caaaa 195

<210> 57188
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-F10

 <400> 57188

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 cagaaaaagc tgaaacgaaa gctaaggaaa atgcgataga taaaaaagca aaaaaagaaa 120
 aaaataaaag gggcggacga tttaaagggt ccatacttac aaactcttaa atgcgactga 180
 atcactttct tatagctcta cttatatata tttcactggc ctttaatttc caaatggtct 240
 acttgcaaaa ccgtgtgata cccaacttaa tagatttgcc tacttgcccta tttacccgat 300
 tgggtgcatta gcatataggt caacctctat ggccatttcc aacagttgcc ctaactgac 360
 ggcaaatggt acgctccttg ctacgttgct tatagcgcag cttgtgtcat aggttctcgc 420
 acc 423

<210> 57189
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-G1

 <400> 57189

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 aaaaaattaa aaaaaaaaaat tacatggaaa aaataagaaa aaataaaaaac tacatattct 120
 tatagaatac aatgctctta ctgatcgtga acttcaaaag gagagatcta ttgtatctgt 180
 catcactaat cccattaact aagacgtggc tttatatctt gcccagcatt gctaaccctg 240
 catatgccat cctctatagg atgcaagctg atgaaccttc atttaaaatg tgtactttag 300
 aatggagttc ttagcttgac gagcttttca ttgctctcaa tatctatccc ctga 354

<210> 57190
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-G9

<400> 57190

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 gcatcaatat caccttgga aaaaagaaga tgaaaatgac ggggagcttg tagtatctaa 180
 aatcttcttc cagttggcaa ataagagtat ggaaatttct gaaacagaaa ctgcttgatga 240
 agaacctgaa gcacctgctt cagtgtattg tccgaaaact ccaaagacaa tcacaccgca 300
 gccacgtcat cctaaaagta gtccatgtga aactcagcag aatatttcca ttgtgcaaga 360
 tcagctacta ctggacagcg aatgctaacc taccatgcct attgttagtc tggacgatga 420
 tgctatgaac cctgcatggt gtgctgtatc tgaaaaa 457

<210> 57191
 <211> 90
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-045-Q1-K1-H5

<400> 57191

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 atgctaagaa caaatcgaaa aagaaaagag 90

<210> 57192
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-H6

 <400> 57192

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 tgataaatac ttagctgcaa attcagcaat gttcttggtg aaaaaaaaaa caaaaaagat 120
 aaaaaaaaaa gaaaagaaat taacaaaaaa aaaataaaaa aaaaacttac aagcataaaa 180
 gagtatgaaa agataatggg cgtccgtttt agaggactaa actttatgaa cgcgacatt 240
 caacgctata gttatattat agggtcacgt aaatgtaatt cactggccgg acttttaaaa 300
 aggcaca 307

<210> 57193
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-045-Q1-K1-H9

 <400> 57193

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 tctgagtctg agatgatgat gatgcctgac ggcggcgtct ggtactgtag tcctgccctg 120
 cccaatcggg cgcttctggc ggcgagcagt gtgttggtgc gtgtcgtgtg gctgcagaac 180
 attaacacgc tagccatgta ccatgctgtg gagggttacc atccatgtat aataatctta 240
 tatgtatacc ccaaattacg aaaacaatgg ctgccctgt acaggatcca agctcaccta 300
 cgcgtgcatg ccaagccata cctctactat agcggcacct aaattcaata 350

<210> 57194
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-A3

 <400> 57194

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aaaacaaaaa aaaaagagga aaaggagggc tgtaaagaag ggtcgtatgt tctataacat 120
ccacgtttat atgcgcttct atgcgatgct atagtgtctc ctatgtacac tccaaaagcc 180
catagtttta gcacgctttt ttacagcgaa aaccattggg aaaaccctgc ttattcccat 240
cttagtacat tcgcattaca tccgctttt 269

<210> 57195
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-A7

<400> 57195

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ctccatgtgt gagcatgctg tgtcctataa cctgggtttat gagatgagtt gttaaacttg 120
cttggcttga ttggttttac ctgtaagagc tgatagttat ataaaaaaaa aaaaaaaaaa 180
aaaaataaaa caaacaatct acaggaaaca aaatgacaca cacatgcatt gccaatgac 240
aaaacttgaa taaaagggcg tgccgtttta gaggatccaa gtttacttac ccgtgcatgc 300
aacgtcatag ctctttttta gggtcaccta atttcaattc at 342

<210> 57196
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-B5

<400> 57196

atttcgagaa tcaactaacc aacaaatccg tagcccaggt gattcgctgc ctccctctgg 60
ccaaacaaaa atgggatgaa tcttctcatg cagctttttt cttattcagg gcgctgcgaa 120
gcatcaaggc aagggggtaa ataaaataag ggggaagagg agttgtcacg at 172

<210> 57197
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C11

<400> 57197

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cccacgcgtc cgccacgcg tccgcttata ttgctggaa catgaataaa agggctctcca 60
gctggtactg cttagctctt acaggaaaac aatgggagag actttggact tcctgaccta 120
aattaagcat tgcgcatgga gaaccttata ttgctggaa catgaataaa agcatttgac 180
aaaaaaaaa aaaaaacaaa aaataataaa aaacta 216

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<210> 57198
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C12

<400> 57198

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atattttttt tttttatggg tttttgggaa tttttttttt atatttttat ttactatatt 60
atttatttta tattttttga atttatttga tttttaatac ttacaatttt aatgttctct 120
aagtgttaac aacgactaaa aatgataatt acttaaacca atcataagaa tctgatagac 180
ataatcaaaa gttcattaaa taagattttg atatatacac aatcgctata aattaagact 240
tgagaatata gctagattat gatcatcaga tacaagactc agctagcacc atattttaaag 300
ctgaataccc agtttttc 318

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<210> 57199
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-C5

<400> 57199

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acgagatagg agcctgtggt cttgtcccag tataagatct gcgatggcac gatgcttggt 60
ccatctgggt cttcgggtgac ttatttttat catgcagtgc atgtgacttg aaactgtgat 120
ggacttgat tgctttctgc cttatggcac ctgtagtagt gaactgatga aggaagttca 180
tgcggactct gaagctttgt tggcttagaa tggtaatatt gctgtattct atttcacagg 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atatt 285

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<210> 57200
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-C7

 <400> 57200

 taccggtccg gaattaccga ctcgaccac gcgttcggac actcgtccgg aagattcccg 60
 tttaaaaact gcaatggcac aaatgcttga gccatctgtg tcttaaagag acttatttat 120
 atcatgcaaa agcatgtgac tcgaaacttt tatagactcg aattgctttc tgccttaatg 180
 caactgtata attgaactta tgaacgaaga tcatgcagac tctgaagctt tgttacctta 240
 taatggacat taaaccgtat tctattccac aagaataa 279

<210> 57201
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-D10

 <400> 57201

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 ccatgtgctg gcgccttggt aactcacaga gcgcgtgggg gctgaatctg tttgagcagc 120
 ctacttgcaa tcactctgag ctgatgctgt gctgctgggt catgctatac tatcattact 180
 tatcggctcc gctgtagctt cttaccacac ggtgacatta gttcgggtacc cgtatctgga 240
 tattttttta gccttcttcg ttggattggt caccggtgat ggcattgtatt aacagacata 300
 gttacatata gatgtaatga attcatgtct ggatcatatt gctttcagtt gcacaaatta 360
 a 361

<210> 57202
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-046-Q1-K1-D2

 <400> 57202

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aaaaaaggaa aataaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 120
 aaaaaaaaaa aaaataaaaaa aaaataaaaaa ataaaaaaaaa ataaaaataat aacaaaagaa 180
 gcccaaaacg atcgacactt aacaacaggt gcgcaacctt aatggagaat ggg 233

<210> 57203
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-D4

<400> 57203

agaggtatac gaagatgagc agcgctatga agacgtatgg gaagggcatc ttcttctcgc 60
 tgtgccaatg ggggaggcaa aaccctgcta cctgggcagg cggcatgggg aacagctgga 120
 gaacgaccga tgatatcgcc gacaactggg gcagcatgac gtctcgtgca gaccagaacg 180
 acaggtgggc ttcttacgcc ggacctggcg ggtggaacga tcctgacatg cttgaggtgg 240
 gcaacggcgg catgtccgag gcggagtacc gctctcactt cagcatctgg gcaactggcc 300
 aaggttcctt tctgatcggg tgcgacgtgc gcgcgatgag ccagcatacg atgggcatac 360
 tcagcaactc ggaagtca 378

<210> 57204
 <211> 219
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-E6

<400> 57204

gaattaccca ctcgaccac gcctcctaaa aaaaaaata caataacatt aaaaaataaa 60
 aaaaaaaaaa aaaaaaaca ggaacatagg aatttttcat acgttcacta tcttcaatac 120
 caaaattatc ttatatcatc ttacttaatt tattttcact caccctctta tcactttaaa 180
 atgaattgac cgtcacttta catactccat ctcaataaa 219

<210> 57205
 <211> 93
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F7

<400> 57205

tcggacgcgt gcgaaaaaaaa aaaatccaaa cttacatata caataacata caacgtaata 60

acgaaaaata taaagacacc taaattcaaa tta 93

<210> 57206

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F8

<400> 57206

aattcccgac tcgaccacg cgtacgcca ctcgtccgcc cacacgttcg aaaaattcaa 60

aaaacacaaa aatatagagg taaacatata aatatacaaa atccatttag ccataataaa 120

tatatgttag tcctataacc ctaagtgtcc aact 154

<210> 57207

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-F9

<400> 57207

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gtgtgtggtc acacttgcca gctagcagag gcgcctgctt gtacctagat tactgtttcc 120

attgtcgtcg tcatcggcta acattgtcat aatgtcagtt tgggtaatgt tagattaaaa 180

aaaaaaaaat ataaaacaaa aaaaaataaa aaaaaatata aaataaaaaat t 231

<210> 57208

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-046-Q1-K1-H6

<400> 57208

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gtgatggatt ctgcaacttc ctccgtgccac cacatactgc atatggaggt ccaaagtgag 120
 ggtacaatac tatgccacac acatttgagc gaacaatata tcagtcctct acatgtttca 180
 tctactatca caaagttgca aaatatatat ggtgactatc attgaactta ccgtacctgg 240
 gccagtgtct ctgcctacac catacctgtg cattgtcagt actatttgct aca 293

<210> 57209
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-A10

<400> 57209

aaaaaaaaa acaactatat accttacttt ttaaaaactt aatacaaaaa atatgggggtg 60
 ggttcaacta aataatgagc cttggtcagc aatcctatct atccctttgt catatacgag 120
 acttatctcg ttgtaaatct cctttgggtt caaccacaata taatcaacta accccaactt 180
 tacatatctg tctaccataa taaccctgtc gaccaaattt ttaaactt taatgaaca 239

<210> 57210
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-B1

<400> 57210

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 tgttttattt ccaaactatta caactgttag ggaaggggtc atggaacctg gagttatgat 120
 cctacttttg tccctaacca aggggttacgt ctagtcttct ctccctgggtg cttgatatct 180
 catgccatat caatgtatca gtacttacta ttgtttgtcg atataaggaa ttgctgacgt 240
 gcacataaaa atgttattct atatggactc agacacacac gttgttaaga cagggttcatt 300
 tggttaatac taatcattat cttccatgac ttaccattta tggtactcat ttgcatata 360
 agcccactct aaactaaggg acagttaa 388

<210> 57211
 <211> 436

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-B12

<400> 57211

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 atctctcct tccgctcgaa cactaatgga ggaagctttg cttaaaacat atgctgttct 120
 gctcaaaaaa aaaaaaaaaa taaaaaaaaa aaatgaacta caaacctta taaaaaaaaa 180
 aaagggggcg cccctttaa aaacaaaatt aacaccccg cattaaaaag ggtgcccctt 240
 tttaaaggcg cccaaaatta aaatcccttg cgcgaattt taaaaacttt ttaatgggaa 300
 aaacaatgta attcccaaac taatatTTTT aaaaaaaat ccctttttaa ccatttggtt 360
 aaaaaacaaa aagccctaaa aaaaaccctt ttcaaaaaat tggcaatttt aaataaaaaa 420
 gggaaccccc cttttt 436

<210> 57212
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-B8

<400> 57212

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 aaaaaaaaaa aaaaaaaga gaaagttaa tttaaaaatg gggcggccgc tctataaaat 120
 ccaagcttac ttaccgtgc atgctacatc atagctttta tatattgtaa cctaaattca 180
 att 183

<210> 57213
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-C12

<400> 57213

cccacgcgtc cgcccactcg tctctcctt cccttcatcc ggaacgtgat gcaggagcgg 60

gtctgctcca ccgacgtgct gtacaagctc gtcaaggggt gcgaggagat gctggaccag 120
ctcctcctgc cccggaacca gcagcggccc gtgccgagcg acaacggcgg ggaaggagac 180
agcgacggcg acgacgacaa gcaacgaccg gcggagccag gcgcctcatc gctgcccagc 240
ggcggcggcg gtggcgctgg cgacatggag ctggaggaga tgcaggacat ggagagcatg 300
tacatgaaga gtacggtggc cgcgctcagg gcgctcaggg agatcaggag cgggagctcc 360
acggtgagcg cgttctccct gccgccacta cggtgattga cacgttgtg 409

<210> 57214
<211> 266
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-C4

<400> 57214
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tagccctcta actaaggctg gaaggttaca ggctgtttat gtgagaactg aaaagggcgt 120
attgtttgaa atcaaaccctc atgtccgcat gccagaacc tttaaactgt tctgggggtt 180
aatgtcaciaa ttgttgcaaa aactgagcat tacggcagtt ggaaagcgtg agaagcttct 240
caacgttggt aaaaatcctg tcaactc 266

<210> 57215
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-C5

<400> 57215
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gtaggcatat agaagattga cgcgtgaagg gtagatccca cggcgctctg ttcctacgct 120
cttccgctag aactgacaca catcatgcag gagtcgcgac atatgtggga caatcgtttt 180
ccacgtaact gcggacctcc tcatacgtac catgggaatt gaaaacctgt gtactgtaaa 240
gatagcccca cggtttgact tcatactagc cgctgatgcg ctgaataaca agtggctgct 300

cctgtcacga gctagatgtc ttgaaatggg tttggcgaat gatttatcaa gaacaatggt 360
 tggattacag ggtcgggcat gcggaatggga cctgcgagac gaggatctat tccaaacgca 420
 gttttgtaag attttactt 439

<210> 57216
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-D12

<400> 57216

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 ttctaaacaa aaaaaaaaaa acacaaagcc aagttaaaat ttaaaactac gcaagcccca 120
 cccaanaaat caactttaca aatattaata tacaaaaaat cctatcccct ttcacataca 180
 catatcttaa cactatccac atctaaatca tctatatttt tcccttatcc cctatttttaa 240
 tttcattatc ccctttctaa aaaccatcat aattaaaaaa cccttttctt tccccatttt 300
 ttatactttt cccccctccc cattttccc 329

<210> 57217
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-D2

<400> 57217

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 tgcgccaact actcctagcc tacggagggt ccttcagaa gcgcaggact ctaaaagccc 120
 tcgacttgcc attatccctc gccgaggagg tctactgata tcacataaac aatgacaaca 180
 ggctgttgct atgcttgcta gcataccatc gtgtcaaggg caccatcttt ttcaccaat 240
 agggagatgg ccgtaccact gtcaccgaa gtgtctttgg cctgaagact cggcttcatg 300
 gtgtccatgt aactcactc tttgacacca ccaatggatg catgataact ggaccacact 360
 acattgatgc gagcaaggag catg 384

<210> 57218
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-D3

<400> 57218

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tctcgcgcgc catcaangcc gggctgaagg acaagggcct cgacgccatg ctggcgctgg 120
ttgaggacga gacgctatcg tcgttctcct ccgcgtcctc gtcgtccgac gaagaggcag 180
gccggacgca gctgaggcgc ccgtcgtcgg ggagctacgg gcggcgggtca gccgaggagc 240
cggtggtgtg cagccccgcg agctcgtctg tggccgtcat ggtgcatgcc ctgcgcgaca 300
gggtgagcta cgtgtgggtc ctgcacgagg acagcgactg ccgccttgct ggcatcgtca 360
cgttcgcgga cgtactgaag gtgttcggg agcagctgct gtgagatctg gaag 414

<210> 57219
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-D9

<400> 57219

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ccggatgggc gcacgcgcca gggcttggtc ttcgaccctg acggcaatgg cctanagggt 120
actagcgtg gtgcaggga tgagaagtga acagagacca tgatttgag tctacttctg 180
ttttatcgtg caatacctca gcaaaccctg cctacatgat gcgatcgaaa ccggagacgt 240
tcctgggtca agcttcgttc cgtaaaataa ataaatccga agcacttcaa agctctacat 300
actcgccctt gcttgtttga gacaagggtc tgcgttcttg ctgcatctca tccgagatga 360
ttgtaatccg aacaatgtgt agttaataaa aatgtcgctt tgccctgaaa atgttttacg 420
ctgtaaakat cgctctgtac gtgattggat ttctacatg acaa 464

<210> 57220
<211> 460

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-E12

 <400> 57220

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 ttgtttccaa cgaaaactca gggcgtatgg gtgagggcca aacatttaca attgaaccta 120
 tactcacaat ggagaaaaca gagtgtgtta catgggaaga tggatggacg actgtcactg 180
 ctgatggtag ctgggctgcg cagtttgagc ataccatact ggtgactagg gacgggtgcag 240
 aaatactgac gaaagtctga gctattctcc tgcccataa ttattgtcag aattctcagc 300
 tatggttcct gtcccaaggc atcctgggtca tgtccgttgc tcgccgcaat actcatttca 360
 gagttttgag atctgctgca ggccgacata cgggaaaagt ttcccccatg tagcagcaac 420
 ttgcaggtga taggtgaggg cacacacaca cacagagaca 460

<210> 57221
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-047-Q1-K1-E2

 <400> 57221

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 acttcacaag gattcaagcc attctgctgc aaaagagttt tgggtacaac acaaaggaca 120
 caacaggtcc atttaaccaa cgaatccaca accacgtttc atgacacaca aaccacagtt 180
 ttttttttta cgacgacgac gcaaataccc aggtacagca gctgcttaaa tgaaccatgg 240
 cttactgacc accacggagg cggagcacca ggtggagagg gctctccttc tgga 294

<210> 57222
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-E3

 <400> 57222

gcgacacgct cttcaacgcc gtgccggggc tggacggcgc gccgggctcc gtgtccctgg 60
agcttgccac caggccgggg tggttcgtgg cgacggcccc cacagcgatg cacgcgaacg 120
ccaccacgca ggtcgtctgc cgagccaaca agggcggcgc ggcgttcgga cgagcggcga 180
gcttcgcgcg cgcgcgcgcg ctgaggcggt accaccgct gagcttcgcg gcgcgcggga 240
cggcgcggaa cttcctgctg gagecgtgc ggagcctgca ggatgagttc tacaccgtct 300
atattagcct cgtctccgac ggcgagagct gattgatcgg tgtgctcctg aacgaacgct 360
ccgctagttt cgctgtgcaa tgag 384

<210> 57223
<211> 117
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-F6

<400> 57223
ctgagttggt aatatacctag attgcctggt ttacatcana aaaaaaaaaa aaaaaaaaaa 60
aaaaagtgaa aattaaanaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataanaa 117

<210> 57224
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-047-Q1-K1-G2

<400> 57224
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cgacccttcc ggcgtgtaca gagagaggta gatccatcta agcttctgtc gcagtgtcac 120
ccgagctgcc ccccccaaa ctgtttggat tagcgtctgt ttgatgggtg ggcctggga 180
cgtgacttga tacggcaaat tgccctatac tgatgtatcc taccctgttg aacaatcttc 240
ttgcctctct ctatatatat gaatatgaat gtacatgttc taagcctctc tgaagatttt 300
tgtaacatat tcaatatgac agccaatatt agccctaaaa gagtct 346

<210> 57225
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-047-Q1-K1-H10

 <400> 57225

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 tctggtccaa aatatggatg actaggtcat gtttgacggc tttagctttc tttggtaatg 120
 gttggccgaa actaatttga ccataaa 147

<210> 57226
 <211> 83
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-A2

 <400> 57226

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 gaggctaagc attgcacagg agg 83

<210> 57227
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-049-Q1-K1-A4

 <400> 57227

 attctcgggt cgacccacgc gttcgctcac gcgttcgaaa aaaaaaaaaat acatttttta 60
 atttttaaaa aaacaattat aaatacgtaa atttgtataa ataccctaga gataatttca 120
 atattacaaa aaatcatttc acatactatt ccattatcca ataagtctcc ctccttgaat 180
 aaccctcatt cctttaacca tgtttccaat ttaaattact ctatcactat taagctt 237

<210> 57228
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-A7

<400> 57228

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acccttggat ctctaggtac aatagtcgng nnnngnnangn nctnnnnnnan nnctnnnancn 120
gnnnctgcat accggggggtt gggcatatcc tgcagttaga tgatcaatgg tgattagata 180
catgttctgg aaccaatggt cagatgacag atggcatact aaacacccta ttggtctcta 240
atattattat tgtcttggaa ttgcaatgcc tgtgaagtac attattaatg gcaggcccag 300
gc 302

<210> 57229

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B4

<400> 57229

cccacgcgtc cggccagtca tacgaccgat ccctagtcga ttcgtgcctt tccacacgga 60
tatgctcaca cgggcccgtg aaggtttgat ccaggccgag cggaccgcgg tggcggcggc 120
ggatatagct tgcacaaaag acgagatcac atacaatgaa ccaactggatc tgatacgact 180
cagtctcgac gagcgcattc acgtaaatct acgactctac cgccagctgc gcgacaagcc 240
tcatgcgaat gatcaacatt taaacatgat ac 272

<210> 57230

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B6

<400> 57230

agacaaacct gagggagcca cagatccctt ggcttagctt tgccagtgat caaacatttg 60
tgtgattgac cctgttcacc tgctggtata gtcggtaggg gggagtgaac taagcgagag 120
gttcgccaca tttgatttga ggatgtgtgt tgggacattc aaggtattct gtttcttgtc 180
cttgacaagg gaggtggttg ggtgtttgaa ggataagagc agtggggtac actttctcac 240

gtttttgtgc cccacacgct cgatatctgt attgatgatg gtccgtaaaa ccaaggtaaa 300
 tggctattcc aaaattttcg tgtttttt 328

<210> 57231
 <211> 464
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-C2

<400> 57231

accacgcgt ccgaccactc ttggcgaagc gaaatccacc gtacaccgct gcctccctct 60
 ccctgtctcg tctcgtcgaa ccagccgagg aagccaacgc agaccacgag atcctcgtcg 120
 cgcgctctcc actcctcccc cacggaggga aggatggcgg agcccaaagc ggcggcggcg 180
 aggaagacgc ggggtgggccc gtacgaggtc ggcaagacca tcggcgaggg cagcttcgcc 240
 aaggtcaagc acgcgcgcga ctcccgacc ggcgccgtcc gcgccatcaa ggtgctcgac 300
 cgcaaccacg ttctnecnca caggatggtc gagcaggtct gtccgtccgt gatccgtccc 360
 ttccgncttc ccttcgccgg ccgctgggga acatatgtaa tgtaacctcc gggaaaattt 420
 ttaaataac cgagctgcc atagaaagaa cggcttcgcg aatc 464

<210> 57232
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C6

<400> 57232

gctgaaaaga ttagacgcta cattgttggt taatccattt accaggtgca gtgcttttga 60
 gtgttttgtg ttgatttgtg ctgtcttttt ttatatgtcc ttatgaatgt ttggaaaata 120
 aaatgtccat ttaacctgag caaataaaaa ataaaaaaag aaaataataa ataaaaataa 180
 aaaaaacaaa aaaaaaaata aaaaaaaaag aaaagtaaaa acaaaaaaaa aaaaaaaagg 240
 gagtgacatt atacaggacc caagtttact acgagatcat tgcacgaaa gatttacttt 300
 atagtgtaac ctaaattaaa ttatatggct gcatttt 337

<210> 57233
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C8

<400> 57233

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ggcatctatc atgaccacaa aagaaaaata tacaataaaa aaaattacta acatgccata 120
caattcaatg acaagcagca tcagacgcaa ctttgaacac attacctgac tcaagtactg 180
gccataaaaa ccgaaataga ataaaggaac aatggagagg gaaaatagaa gaggattcac 240
acaggatcca gcaagaattc caaatacaaa acaaggaaaa agattattaa caacaaacaa 300
tgattcgatg ctttcaggac gatgagattt ttcaaccatc aaacaggcac tgaaagcttg 360
cttagcaaag caagcagtac accttttgac attcattagt tttcaaaaat 410

<210> 57234
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D2

<400> 57234

acctacgcgt ccgcccacgc gtccggtggc tagatcattt gcacggccgt tcggttcata 60
aatcacaaac ctteggcgaa gacacggtgg ggccttgagt tctggtggag tgtgcttggtg 120
cgtgtcgtc gaagcccgtc catcattgga tcaggatcatg ccggttggtgc ggtcacgctg 180
gatgtcagaa gcaacctagc ttaaactca ttcgtgtaca tgtaaaagga tccccctac 240
agtatagtta aaaccagcgg agattcatcg cgtgatatgt ggagagatga gttccattga 300
ttaatttatt tatactagtt gagattctgg ccctgtatcg tacgtatatc attggttttg 360
tattagttgg tcaatagaat ttct 384

<210> 57235
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D4

<400> 57235

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tggggttgagc tattagtcac agagatgaga aatgcttctg acataaacga tgcacgggct 120
cgtgcgtaa gagctctgga ggctttggag aaaacgattg tagagcgtgc aggagctgaa 180
gctacacaaa acctgcataa ggaaaacatg atgctcaagg agcagttgac tgttggtctg 240
cgagagaact ccgtgctgaa gcgggcagtc gccatccagc acgagcgcca aaaggagtgc 300
gacgagaggt ctcacgaggt ccagaacttg aagcaacttg ttctgcagta ccaggagcaa 360
gttaggactc tagagatgaa caactacgcc ctcacaatgc atcttaagca ggctcaacag 420
aacagcttca tacctgggc 439

<210> 57236

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D7

<400> 57236

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tgagtggggg aaaaacaact tgcggtgagg ttagtgaagc ttagtagcta ccactattca 120
agagttaaag ggagttcgta tgacagttcc tctggagatg ttatcttcaa agtcttatat 180
cactgctact tgtgagctgt gttaaaacct atatatataa gttttgtttg acgtgactgc 240

<210> 57237

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E3

<400> 57237

gcagggcctc cagcattca acctatcatt taaacccccg gcgcaacacc aagccacggg 60
aggcaattaa aatagaaccg cggccatcca agaccgg 97

<210> 57238

<211> 288

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E7

<400> 57238

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 gcagtctggt acatgctcct gcttgcttat ccatgaaata atgcctggac agtctgtaga 120
 tgttgcgaaa acatggtgcc cctgtgggtt gccgcgtgtg tagtaagtat ctctcagtcg 180
 tagtgtgggt gaagcatctg aactcttgag cggtttgctt gtgatggcat atgggtcaaa 240
 ctaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaataaa aaaataat 288

<210> 57239
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F1

<400> 57239

gatcgatcga tctgtggtga tgagtgtcct tatctgtgtg tttgtgttta gttccagtcg 60
 tctgtgagga agtcagttat gtttgagtga gagggttact tcgctcttcg gtgaacactg 120
 tacttgtcat gaggagagtt ttcatacccg gagtgtagga actctgtact gtactcggat 180
 ccttcctttt tcatcgaagt ggggttttatt ttatcaaaac aaactcaaaa aagaagcact 240
 taaaacatcc aaaagacata tagcttggtg aatcattgaa cttaaaacgc t 291

<210> 57240
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G5

<400> 57240

gcatcgagca caccaacgcc tgacgaaaca tgcaatcgct ccaagagaag ggggtgcagca 60
 cttgctaaat tcaggcagaa aaggaaagag cgctgttttg acaagaaggt gaggtatgtg 120
 aacaggaaga aacttgctga gacgaggcca aggggtgcgag gtcaatttgt taggcatgca 180
 agcaatatgg atatcataag cactggagat gatatatctg aagacgaaga tgacgatcca 240

acctacaggg aggtagatat gattttcttct ccagagtagt ggaaagggtcc tcttgtgtga 300
 aaaattagag tgcagatggg tactgtctcac tttgttataa ctcagtagga ctagacaata 360
 cattcttcta ctggcaacaa agcaatacac ctttt 395

<210> 57241
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G7

<400> 57241

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 attgtccatc gcagcgcata tgtctttctc atcgtgaatg gaggtgggta tagtaccaga 120
 caacatggca acaacagaca tgccaagctc cggatctctg ctgacgcctg ctggggccat 180
 cagcctgttc tcgtcgggtc cttcgtctca gatgccgctt cacttggcct ccatggacag 240
 ggatgctagg gtgctgaggt acagggagaa gaagaagaac acgaagtttg acaagaccat 300
 acggtatgcc acgaggaaga cgtacgcaga agcacggccg aagatcaagg gacactttct 360
 gaaaagatcg tctgatattg a 381

<210> 57242
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H2

<400> 57242

accacgcgtc cggatggatgt aaaacatggg ctattagtcc caactcttat tatgttgtgg 60
 ttagctagag ttgaaacctt atagaaacca caagttaagg ttcaagcaca tgaataccta 120
 tttccatac acatatatct aaagttaaatt tttgtactct tatcatttta agtcttcttt 180
 atcgtctttc cacatattaa agttgggtatt tctctatctc tctttccata gctgtcgcgc 240
 tttaggatac tactatgtac gagtgcttct agcactctga aggtctctta accggctgtg 300
 aagttttttt ttcaaaaaaa ataatggact acacaaacat ttatttcta gacttaaata 360
 ttaagaatca atctgagct 379

<210> 57243
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H3

<400> 57243

gttttgaaca agttaaagtc ccaagacatt ttgttttggt ccattccagc tcaagaattg 60

aaagctaagc attgcacaaa a 81

<210> 57244
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H7

<400> 57244

gttttgaaca agttaaagtc ccaagacatt ttgttttggt ccattccagc tcaagaatgc 60

ggagctaagc attgcacaga aagg 84

<210> 57245
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A11

<400> 57245

taaagagctc aacacctgat cgatccgtgt acagtaagca acacgttatg gaacaattcg 60

gcgattgatt gtacaataat tgaagacaag gtttataact ttaaaaaaaa aataaaaaaaaa 120

ataaaaaaaaa aaccaaataa aaataaaaaat aaataaaaaa acaacatcta aacaaaaaaaa 180

aaactaaaat acataaaaag aataaataat ggcactaatt cctaaataaa aaaaaggggt 240

taatgcttat aagaatccat gttatatgac tcatgaatta accaatatga ttataatt 298

<210> 57246
<211> 478
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-050-Q1-K1-B1

<400> 57246

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ggaataactgc gagacgctca agtcggagga ctggccagtt tgtgcctgca ttaactatga 120
ctgtagtccg atgaatgcgt ctgaagaagc gcacaatctt gagacctcgc agctgggtctg 180
ggagaagaca ctggagatgg tcggccttcc gccggatgcc ctggagaagc tcatcgccgg 240
agaatcagtt cagtgcggtt acggacaaca ggatacaact ttttagttag cagtttagag 300
gtggtttgtt cgtttgttat gtcattttga tcctaaattt gcagggagga aaacacaggg 360
aaggagagaaa aagaatttgt tgacagctac caatctttgc tctttttctg tatgtgtgca 420
agatgttgtg aaggaggcgt agaaacacat ctnccccatt atttgaaaaa aattaa 478

<210> 57247
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B3

<400> 57247

ggtttctgtg ctgtgtaaca atgtatcggt ttattttctt taatggtgtg ggaacattag 60
tagaagatga aacatttgac tgcctttttc cccactggat gtccactgga tcacgtcgca 120
aaatattttt ttttcatgat tcatgcataa ttctgtctt cc 162

<210> 57248
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B5

<400> 57248

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tactatatag acacgctaac attagtggaa tattgagcat ttactgcct taactatcac 120
tgtatttcca cttaatcacc tcacaaaata ctcttttttc atgactcata cataatttct 180

gcttattaaa cttaaaataa tacggcctgc cgctcatgca catccaaact tacttacgcy 240
 tgcacgcat gacatacctt acctatatcg ttacctaaat tcaaactcact gaccgtagat 300
 ttacaacggt ctgactggta aaactcttga ttcacccaac ttaat 345

<210> 57249
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B7

<400> 57249

taaatgctaa tctacaaact tgtattatct attgtgcatc tctagcttgg gtatcacttg 60
 agaatgttcg cacttatgac cacactaaca ttcaacttta agcactccac ttatactttt 120
 cttataaaca ttaacactta ctatctactt aatacacttt cgctctaaag gatccatgct 180
 tacctacacg ttcacacacc ttcacatcca ttctatgctg tcacttaact atattgcact 240
 atcaattctt ttacaacacc gtgactttta aaacctttgc ctaaccacaa ctctatccgt 300
 tcccaactca ttctactttc tgcagattcc catatatct 339

<210> 57250
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B9

<400> 57250

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 ttggatctta cagccgggtt ggcaagggat gctcagccgc atttgaagat tgacgttgct 120
 gagaacctga gacgatgata ggagaagata cagatagccg gtcggttggc tttaccttgt 180
 gaaacagtat gattgtgatg gagttgaaga agaacaaagt tgcgtctctc ctgtaaatac 240
 ctgtgaaaagt aaaccctgaa tccggttaca gtcttaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa attaaaaaaaa taaaaataa aaaaaaaaaa agggcggacg 360
 ttctagaggt tccaagttta cttccgcgtg catgc 395

<210> 57251

<211> 60
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D5

<400> 57251

aaacaaaaaa aaagaattac aaaaaaaaaa ttataataaa aataaaaaac gagtataagc 60

<210> 57252
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E10

<400> 57252

ttggaattaa tgatgatgca tataacttgct taaattactg ctgacaccgc gttgtgtgtg 60

tagtgtatat atatctatat gtacgacgca tggcatatac tgctactcga actggacgat 120

ggagctgtag acgttgctcg gctgccagtc tgccggaatg acctggtccg ccaccagcgt 180

cttgccggac tcgttggtga cgcgacgca gaagggcccc tgcagcgcc gccgggtgtc 240

catcctccat atggagcccc aggactcgcg catgggctcc cagacgccgg tgggctcgcc 300

gtcgtcgggg ctggactcca tcagggtccac ctgcaccacg tcgccgtcgc cgttctcgta 360

ctccaccagc accggcaggt agttgggggt ggagccacgc tcgatgt 407

<210> 57253
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F4

<400> 57253

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ggagcagatc gtgtcactaa tatcaatgtc actcgacagc cagatcctac tgactggccc 180

agactcaatc attgccagat ctgtttgtgt tgacgctgat cctgatgatc gtttaaagat 240

tgggcacgac cttagccaga ccactggaat cgccgcatgc tcatgtcgct tgaggatatca 300

cagtactcca gcgctgtata ccatcgacgg acttggggga gcctgatagg tacctatcct 360
gccgaacca tgaca 375

<210> 57254
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G2

<400> 57254

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caaagccaac agccaagcag tcttgtgatt aatcagccaa attcacagcg atcacgtcgt 120
ccgtcaccag aacctcatgt ctgctcttgc tcacactgat cctcgtctcc gtgggtggcga 180
tcttgcccaa ctccctatgc catgcaacca gggctgtctc agcaatacgt atacattggg 240
accctaatac tcttgcttgc atacgtcat gctctgcttc tgtgtgctct tactctactc 300
ttacgtctta tactgtcggc gtcccttatg aacctt 336

<210> 57255
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G4

<400> 57255

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cttgacgtat acgagaacta ctacctcatc aaataccgct taccacagga catctgcttc 120
catctagata atacgtcttc tgcacatata tatgtcagat tgaataaatg tcagctcaat 180
gtatgacatg atctaggatg acctcgaaga ctattcgac tttgtcgaag ctacttccat 240
tcaccctaata aaactcaatc aca 263

<210> 57256
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G7

<400> 57256

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cgactacacc atcttcatgg gtcttgagga gtactagggc taggacctaa tgacatacgg 120

cttccgcgag gacatctggt tccatgtaga taagatgtcc tctgcacatg tgtatgtgag 180

attgaataaa ggtcagtcaa tggatgacat gagtgagggt ttgctggaag actgtgcgca 240

gcttgctaaa gctaattcca ttcaaggtaa taaagtcaat aacattgatg tagcttatac 300

tccatggtac aatttgaaga agacgccttc aatggatgtg ggccaagttg gtttttatac 360

ccctaaa 367

<210> 57257

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H12

<400> 57257

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agggaaaaaa aaaaaaaaaa aaagaaaaaa aaaaataaaa aaaaaaa 107

<210> 57258

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H8

<400> 57258

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gagctgctca tccgcaagtt gcccttccag cgcctcgggc gtgagatcgc gcaggacttc 120

aagaccgatc tccgcttcca gtctctccgtc gtcgccgcgc tgcattgaggc cgccgaggcc 180

tacctcgtgg ggctctttga ggacactaac ctctgcgcca tccacgcca ggcgcgtcacc 240

atcatgcccc aggacatgca gtcgcgcgc cgcattcagg gagagagggc ctgagcgagg 300

cgagctcttc tcaccgcagg cggcgtcgtt gttgcttcgg gcctgcttgt atgacttgtg 360

cttctcttgg tttcttctg gtggcagt 388

<210> 57259
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-E11

 <400> 57259

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 ttttcctttg gctgctacga ggcttccaaa tcattctggg aagccctctc cacttccaaa 120
 accaacttct ccattctctg catagagact aaaagatttc tcttgtggta ttcaaagtaa 180
 taaatcaaac catttccaaa gatcttaaag ccctaacttg tgaaattttc ttaccgaccg 240
 tt 242

<210> 57260
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-A1

 <400> 57260

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 gattagtttt gatgtatttc cccaagggtg ggacaaatct tattgcttga gatattctga 180
 ggaatttcaa gaaatccatt tctttgggga taagacctac taggggtggca atgactatga 240
 gatatttgaa tctgaaagaa cagttgggtca tacagttacc agtcccagtg acacagctca 300
 gcaatgcaga tctctctttt tgtcttaagt gatcttcagc ttattttcaa cacatattta 360
 ttaagtcatc tttgactgaa tgcctttttg gatttttttc aggacaattc attgctacca 420
 ttttttcttt gaataatt 438

<210> 57261
 <211> 233
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-A7

<400> 57261

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gccatttctg cggggcgaaa gatgtggtac agatgccaaa aacatcacgc ggctggaagt 120
gaaaaaaatc atggagcagt ggcattggccg aagagtggca cacgcacaaa ctactgagga 180
gagggaaagc cattggagga gacagcagcc cttctggaat atcttgctaa caa 233

<210> 57262

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